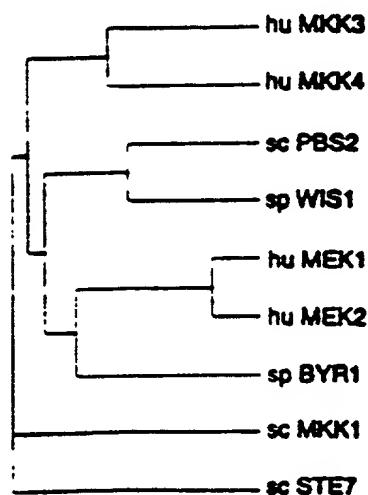


[illegible]

FIG. 2



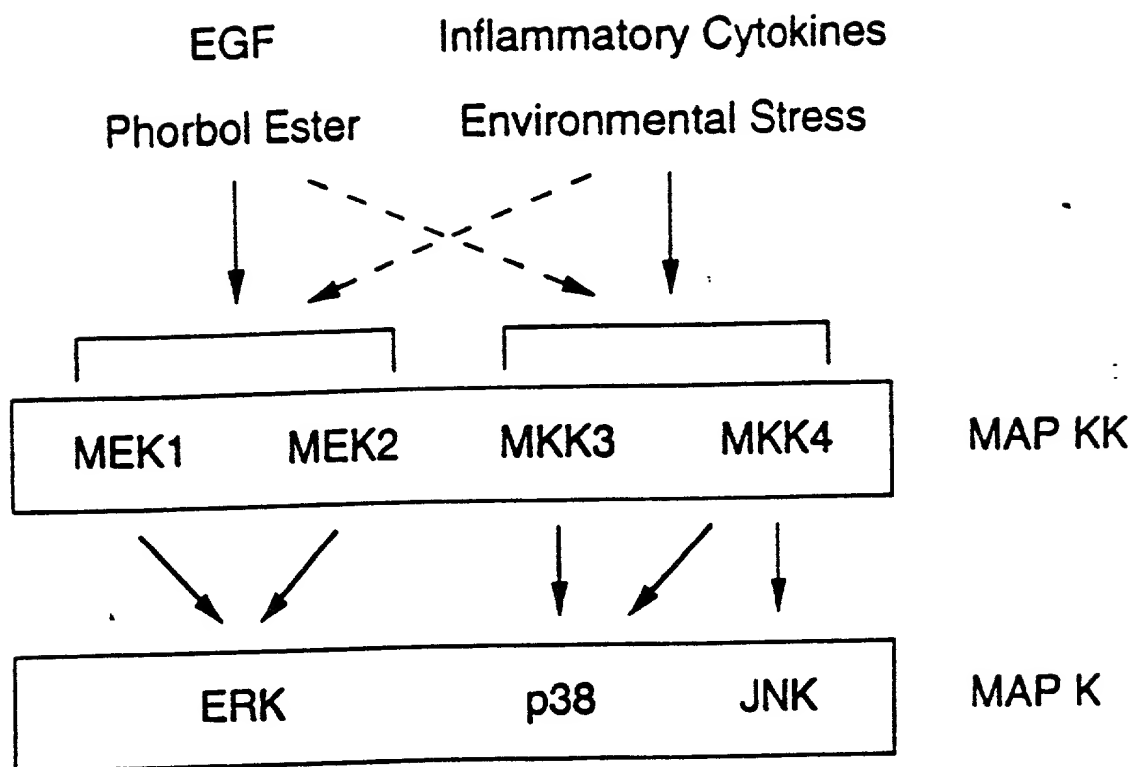


FIG. 3

FIG. 4

5	10	15	20	25	30	35	40	45	50	55	60
	*		*		*		*		*		*
TGGCTGGCAA	TGGCCTTGCT	GACCTCGAGC	CGGGCCCAACG	TGGGGACCTT	TGGAGCACAG	ACCGACCGTT	ACCGGAACGA	CTGGAGCTCG	GCCCCGGGTGC	ACCCCTGGAA	ACCTCGTGTC
65	70	75	80	85	90	95	100	105	110	115	120
	*		*		*		*		*		*
CCTACGATCC	TGGTGCAAGG	CCGGTGGATG	CAGAGGCCAG	TCCATATACC	ACCCAGGCCT	GGATGCTAGG	ACCACGTTCC	GGCCACCTAC	GTCTCCGGTC	AGGTATATGG	TGGGTCCCGA
125	130	135	140	145	150	155	160	165	170	175	180
	*		*		*		*		*		*
GCGAGGAGCG	TGGTCCCCAC	CCATCCAGCC	CATATGTGCA	AGTGCCCTTG	ACAGAGAGGC	GGCTCCTCGC	ACCAGGGGTG	GGTAGGTCGG	GTATACACGT	TCACGGGAAC	TGTCTCTCCG
185	190	195	200	205	210	215	220	225	230	235	240
	*		*		*		*		*		*
TGGTCATATC	CATGGTGACC	ATTTATGGGC	CACAACAGGT	CCCCATCTGC	GCAGTGAACC	ACCAGTATAG	GTACCACTGG	TAAATACCCG	GTGTTGTCCA	GGGGTAGACG	CGTCACTTGG
245	250	255	260	265	270	275	280	285	290	295	300
	*		*		*		*		*		*
CTGTGCTGAG	CACCTTGACG	ACGTGATCTT	GCTTCGTCCT	GCAGCACTGT	GCGGGGCAGG	GACACGACTC	GTGGAACGTC	TGCACTAGAA	CGAAGCAGGA	CGTCGTGACA	CGCCCCGTCC
305	310	315	320	325	330	335	340	345	350	355	
	*		*		*		*		*		
AAAATCCAAG	AGGAAGAAGG	ATCTACGGAT	ATCCTGC	ATG	TCC	AAG	CCA	CCC	GCA		
TTTTAGGTTC	TCCTTCTTCC	TAGATGCCTA	TAGGACG	TAC	AGG	TTC	GGT	GGG	CGT		
										Met	Ser
										Lys	Pro
										Pro	Ala>
360	365	370	375	380	385	390	395	400			
	*		*		*		*		*		*
CCC AAC CCC	ACA CCC	CCC CGG	AAC CTG	GAC TCC	CGG ACC	TTC ATC	ACC				
GGG TTG GGG	TGT GGG	GGG GCC	TTG GAC	CTG AGG	GCC TGG	AAG TAG	TGG				
Pro Asn Pro	Thr Pro	Pro Pro	Arg Asn	Leu Asp	Ser Arg	Thr Phe	Ile Thr>				
405	410	415	420	425	430	435	440	445	450		
	*		*		*		*		*		*
ATT GGA GAC	AGA AAC	TTT GAG	GTG GAG	GCT GAT	GAC TTG	GTG ACC	ATC				
TAA CCT CTG	TCT TTG	AAA CTC	CAC CTC	CGA CTA	CTG AAC	CAC TGG	TAG				
Ile Gly Asp	Arg Asn	Phe Glu	Val Glu	Ala Asp	Asp Leu	Val Thr	Ile>				
455	460	465	470	475	480	485	490	495			
	*		*		*		*		*		*
TCA GAA CTG	GGC CGT	GGA GCC	TAT GGG	GTG GTA	GAG AAG	GTG CGG	CAC				
AGT CTT GAC	CCG GCA	CCT CGG	ATA CCC	CAC CAT	CTC TTC	CAC GCC	GTG				
Ser Glu Leu	Gly Arg	Gly Ala	Tyr Gly	Val Val	Glu Lys	Val Arg	His>				
500	505	510	515	520	525	530	535	540	545		
	*		*		*		*		*		*
GCC CAG AGC	GGC ACC	ATC ATG	GCC GTG	AAG CGG	ATC CGG	GCC ACC	GTG				
CGG GTC TCG	CCG TGG	TAG TAC	CGG CAC	TTC GCC	TAG GCC	CGG TGG	CAC				
Ala Gln Ser	Gly Thr	Ile Met	Ala Val	Lys Arg	Ile Arg	Ala Thr	Val>				
550	555	560	565	570	575	580	585	590	595		
	*		*		*		*		*		*
AAC TCA CAG	GAG CAG	AAG CGG	CTG CTC	ATG GAC	CTG GAC	ATC AAC	ATG				
TTG AGT GTC	CTC GTC	TTC GCC	GAC GAG	TAC CTG	GAC CTG	TAG TTG	TAC				
Asn Ser Gln	Glu Gln	Lys Arg	Leu Leu	Met Asp	Leu Asp	Ile Asn	Met>				

FIG. 4 - CONT'D

600	605	610	615	620	625	630	635	640							
*		*		*		*		*							
CGC	ACG	GTC	GAC	TGT	TTC	TAC	GGG	GCA	CTA	TTC					
GCG	TGC	CAG	CTG	ACA	AAG	ATG	CCC	CGT	GAT	AAG					
Arg	Thr	Val	Asp	Cys	Phe	Tyr	Gly	Ala	Leu	Phe>					
645	650	655	660	665	670	675	680	685	690						
	*		*		*		*		*						
AGA	GAG	GGA	GAC	GTG	TGG	ATC	GAG	CTC	ATG	GAC	ACA	TCC	TTG		
TCT	CTC	CCT	CTG	CAC	ACC	TAG	ACG	TAC	CTC	GAG	TAC	CTG	TGT	AGG	AAC
Arg	Glu	Gly	Asp	Val	Trp	Ile	Cys	Met	Glu	Leu	Met	Asp	Thr	Ser	Leu>
695	700	705	710	715	720	725	730	735							
	*		*		*		*								
GAC	AAG	TTC	TAC	CGG	AAG	GTG	CTG	GAT	AAA	AAC	ATG	ACA	ATT	CCA	GAG
CTG	TTC	AAG	ATG	GCC	TTC	CAC	GAC	CTA	TTT	TTG	TAC	TGT	TAA	GGT	CTC
Asp	Lys	Phe	Tyr	Arg	Lys	Val	Leu	Asp	Lys	Asn	Met	Thr	Ile	Pro	Glu>
740	745	750	755	760	765	770	775	780	785						
*		*		*		*		*							
GAC	ATC	CTT	GGG	GAG	ATT	GCT	GTG	TCT	ATC	GTG	CGG	GCC	CTG	GAG	CAT
CTG	TAG	GAA	CCC	CTC	TAA	CGA	CAC	AGA	TAG	CAC	GCC	CGG	GAC	CTC	GTA
Asp	Ile	Leu	Gly	Glu	Ile	Ala	Val	Ser	Ile	Val	Arg	Ala	Leu	Glu	His>
790	795	800	805	810	815	820	825	830	835						
*		*		*		*		*							
CTG	CAC	AGC	AAG	CTG	TCG	GTG	ATC	CAC	AGA	GAT	GTG	AAG	CCC	TCC	AAT
GAC	GTG	TCG	TTC	GAC	AGC	CAC	TAG	GTG	TCT	CTA	CAC	TTC	GGG	AGG	TTA
Leu	His	Ser	Lys	Leu	Ser	Val	Ile	His	Arg	Asp	Val	Lys	Pro	Ser	Asn>
840	845	850	855	860	865	870	875	880							
*		*		*		*		*							
GTC	CTT	ATC	AAC	AAG	GAG	GGC	CAT	GTG	AAG	ATG	TGT	GAC	TTT	GGC	ATC
CAG	GAA	TAG	TTG	TTC	CTC	CCG	GTA	CAC	TTC	TAC	ACA	CTG	AAA	CCG	TAG
Val	Leu	Ile	Asn	Lys	Glu	Gly	His	Val	Lys	Met	Cys	Asp	Phe	Gly	Ile>
885	890	895	900	905	910	915	920	925	930						
	*		*		*		*		*						
AGT	GGC	TAC	TTG	GTG	GAC	TCT	GTG	GCC	AAG	ACG	ATG	GAT	GCC	GGC	TGC
TCA	CCG	ATG	AAC	CAC	CTG	AGA	CAC	CGG	TTC	TGC	TAC	CTA	CGG	CCG	ACG
Ser	Gly	Tyr	Leu	Val	Asp	Ser	Val	Ala	Lys	Thr	Met	Asp	Ala	Gly	Cys>
935	940	945	950	955	960	965	970	975							
	*		*		*		*								
AAG	CCC	TAC	ATG	GCC	CCT	GAG	AGG	ATC	AAC	CCA	GAG	CTG	AAC	CAG	AAG
TTC	GGG	ATG	TAC	CGG	GGA	CTC	TCC	TAG	TTG	GGT	CTC	GAC	TTG	GTC	TTC
Lys	Pro	Tyr	Met	Ala	Pro	Glu	Arg	Ile	Asn	Pro	Glu	Leu	Asn	Gln	Lys>
980	985	990	995	1000	1005	1010	1015	1020	1025						
*		*		*		*		*							
GGC	TAC	AAT	GTC	AAG	TCC	GAC	GTG	TGG	AGC	CTG	GGC	ATC	ACC	ATG	ATT
CCG	ATG	TTA	CAG	TTC	AGG	CTG	CAG	ACC	TCG	GAC	CCG	TAG	TGG	TAC	TAA
Gly	Tyr	Asn	Val	Lys	Ser	Asp	Val	Trp	Ser	Leu	Gly	Ile	Thr	Met	Ile>
1030	1035	1040	1045	1050	1055	1060	1065	1070	1075						
*		*		*		*		*							
GAG	ATG	GCC	ATC	CTG	CGG	TTC	CCT	TAC	GAG	TCC	TGG	GGG	ACC	CCG	TTC
CTC	TAC	CGG	TAG	GAC	GCC	AAG	GGA	ATG	CTC	AGG	ACC	CCC	TGG	GGC	AAG
Glu	Met	Ala	Ile	Leu	Arg	Phe	Pro	Tyr	Glu	Ser	Trp	Gly	Thr	Pro	Phe>
1080	1085	1090	1095	1100	1105	1110	1115	1120							

FIG. 4 - CONT'D

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      *           *           *           *           *
CAG CAG CTG AAG CAG GTG GTG GAG GAG CCG TCC CCC CAG CTC CCA GCC
GTC GTC GAC TTC GTC CAC CAC CTC CTC GGC AGG GGG GTC GAG GGT CCG
Gln Gln Leu Lys Gln Val Val Glu Glu Pro Ser Pro Gln Leu Pro Ala>

1125  1130  1135  1140  1145  1150  1155  1160  1165  1170
      *           *           *           *           *
GAC CGT TTC TCC CCC GAG TTT GTG GAC TTC ACT GCT CAG TGC CTG AGG
CTG GCA AAG AGG GGG CTC AAA CAC CTG AAG TGA CGA GTC ACG GAC TCC
Asp Arg Phe Ser Pro Glu Phe Val Asp Phe Thr Ala Gln Cys Leu Arg>

1175  1180  1185  1190  1195  1200  1205  1210  1215
      *           *           *           *           *
AAG AAC CCC GCA GAG CGT ATG AGC TAC CTG GAG CTG ATG GAG CAC CCC
TTC TTG GGG CGT CTC GCA TAC TCG ATG GAC CTC GAC TAC CTC GTG GGG
Lys Asn Pro Ala Glu Arg Met Ser Tyr Leu Glu Leu Met Glu His Pro>

1220  1225  1230  1235  1240  1245  1250  1255  1260  1265
      *           *           *           *           *
TTC TTC ACC TTG CAC AAA ACC AAG AAG ACG GAC ATT GCT GCC TTC GTG
AAG AAG TGG AAC GTG TTT TGG TTC TTC TGC CTG TAA CGA CGG AAG CAC
Phe Phe Thr Leu His Lys Thr Lys Lys Thr Asp Ile Ala Ala Phe Val>

1270  1275  1280  1285  1290  1295  1300  1305  1310  1315  1320
      *           *           *           *           *
AAG AAG ATC CTG GGA GAA GAC TCA TAGGGGCTG GGCCTCGGAC CCCACTCCGG
TTC TTC TAG GAC CCT CTT CTG AGT ATCCCCGAC CCGGAGCCTG GGGTGAGGCC
Lys Lys Ile Leu Gly Glu Asp Ser> (SEQ ID NO:2)

1325  1330  1335  1340  1345  1350  1355  1360  1365  1370  1375  1380
      *           *           *           *           *
CCCTCCAGAG CCCACAGCC CCATCTGCGG GGCAGTGCT CACCCACACC ATAAGCTACT
GGGAGGTCTC GGGGTGTGCG GGTAGACGCC CCCGTCACGA GTGGGTGTGG TATTCGATGA

1385  1390  1395  1400  1405  1410  1415  1420  1425  1430  1435  1440
      *           *           *           *           *
GCCATCCTGG CCCAGGGCAT CTGGGAGGAA CCGAGGGGGC TGCTCCCACC TGGCTCTGTG
CGGTAGGACC GGGTCCCGTA GACCCCTCCTT GGCTCCCCCG ACGAGGGTGG ACCGAGACAC

1445  1450  1455  1460  1465  1470  1475  1480  1485  1490  1495  1500
      *           *           *           *           *
GCGAGCCATT TGTCCAAGT GCCAAGAAG CAGACCATTG GGGCTCCCAG CCAGGCCCTT
CGCTCGGTAA ACAGGGTTCA CGGTTTCTTC GTCTGGTAAC CCCGAGGGTC GGTCCGGGAA

1505  1510  1515  1520  1525  1530  1535  1540  1545  1550  1555  1560
      *           *           *           *           *
GTCGGCCCCA CCAGTGCCTC TCCCTGCTGC TCCTAGGACC CGTCTCCAGC TGCTGAGATC
CAGCCGGGGT GGTACCGGAG AGGGACGACG AGGATCCTGG GCAGAGGTCTG ACGACTCTAG

1565  1570  1575  1580  1585  1590  1595  1600  1605  1610  1615  1620
      *           *           *           *           *
CTGGACTGAG GGGCCTGGA TGCCCCCTGT GGATGCTGCT GCCCCTGCAC AGCAGGCTGC
GACCTGACTC CCCCAGACCT ACGGGGGACA CCTACGACGA CGGGGACGTG TCGTCCGACG

1625  1630  1635  1640  1645  1650  1655  1660  1665  1670  1675  1680
      *           *           *           *           *
CAGTGCCTGG GTGGATGGGC CACCGCCTTG CCCAGCCTGG ATGCCATCCA AGTTGTATAT
GTCACGGACC CACCTACCCG GTGGCGGAAC GGGTCGGACC TACGGTAGGT TCAACATATA

1685  1690  1695  1700  1705  1710  1715  1720  1725  1730  1735  1740
      *           *           *           *           *
TTTTTTAATC TCTCGACTGA ATGGACTTTG CACACTTTGG CCCAGGGTGG CCACACCTCT

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FIG..4 - CONT'D

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AAAAAATTAG AGAGCTGACT TACCTGAAAC GTGTGAAACC GGGTCCCACC GGTGTGGAGA
 1745 1750 1755 1760 1765 1770 1775 1780 1785 1790 1795 1800
      *      *      *      *      *
ATCCCGGCTT TGGTGGGGG TACACAAGAG GGGATGAGTT GTGTGAATAC CCCAAGACTC
TAGGGCCGAA ACCACGCCCC ATGTGTTCTC CCCTACTCAA CACACTTATG GGGTTCTGAG

 1805 1810 1815 1820 1825 1830 1835 1840 1845 1850 1855 1860
      *      *      *      *      *
CCATGAGGGA GATGCCATGA GCCGCCAAG GCCTTCCCCT GGCAGTGGCA AACAGGGCCT
GGTACTCCCT CTACGGTACT CGGCGGGTTC CGGAAGGGGA CCGTGACCGT TTGTCCCGBA

 1865 1870 1875 1880 1885 1890 1895 1900 1905 1910 1915 1920
      *      *      *      *      *
CTGCGGAGCA CACTGGCTCA CCCAGTCCTG CCCGCCACCG TTATCGGTGT CATTACCTT
GACGCCTCGT GTGACCGAGT GGGTCAGGAC GGGCGGTGGC AATAGCCACA GTAAGTGGAA

 1925 1930 1935 1940 1945 1950 1955 1960 1965 1970 1975 1980
      *      *      *      *      *
TCGTGTTTTT TTAAATTTAT CCTCTGTTGA TTTTTTCTTT TGCTTTATGG GTTTGGCTTG
AGCACAAAAA AAATTTAAATA GGAGACAACT AAAAAAGAAA ACGAAATACC CAAACCGAAC

 1985 1990 1995 2000 2005 2010 2015 2020 2025 2030
      *      *      *      *
TTTTTCTTGC ATGGTTTGGA GCTGATCGCT TCTCCCCCAC CCCCTAGGGG (SEQ ID NO: 1)
AAAAAGAACG TACCAAACCT CGACTAGCGA AGAGGGGGTG GGGGATCCCC

```

FIG. 5

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      5    10    15    20    25    30    35    40    45    50    55    60
      *    *    *    *    *    *    *    *    *    *    *    *
TAGCTGCAGC ACAGCCTTCC CTAACGTTGC AACTGGGGGA AAAATCACTT TCCAGTCTGT
ATCGACGTCG TGTCGGAAGG GATTGCAACG TTGACCCCCT TTTTAGTGAA AGGTCAGACA

      65    70    75    80    85    90    95   100   105   110   115   120
      *    *    *    *    *    *    *    *    *    *    *    *
TTTGCAAGGT GTGCATTTCC ATCTTGATTG CCTGAAAGTC CATCTGCTGC ATCGGTCAAG
AAACGTTCCA CACGTAAAGG TAGAACTAAG GGACTTTCAG GTAGACGACG TAGCCAGTTC

      125   130   135   140   145   150   155   160   165   170   175   180
      *    *    *    *    *    *    *    *    *    *    *    *
AGAAACTCCA CTTGCATGAA GATTGCACGC CTGCAGCTTG CATCTTTGTT GCAAAACTAG
TCTTTGAGGT GAACGTACTT CTAACGTGCG GACGTCGAAC GTAGAAACAA CGTTTTGATC

      185   190   195   200   205   210   215   220   225   230   235   240
      *    *    *    *    *    *    *    *    *    *    *    *
CTACAGAAGA GAAGCAAGGC AAAGTCTTTT GTGCTCCCCT CCCCCATCAA AGGAAAGGGG
GATGCTTTCT CTTCGTTCCG TTTCAGAAAA CACGAGGGGA GGGGGTAGTT TCCTTTCCCC

      245   250   255   260   265   270   275   280   285
      *    *    *    *    *    *    *    *    *
AAA ATG TCT CAG TCG AAA GGC AAG AAG CGA AAC CCT GGC CTT AAA ATT
TTT TAC AGA GTC AGC TTT CCG TTC TTC GCT TTG GGA CCG GAA TTT TAA
Met Ser Gln Ser Lys Gly Lys Lys Arg Asn Pro Gly Leu Lys Ile>

290   295   300   305   310   315   320   325   330   335
*    *    *    *    *    *    *    *    *    *
CCA AAA GAA GCA TTT GAA CAA CCT CAG ACC AGT TCC ACA CCA CCT AGA
GGT TTT CTT CGT AAA CTT GTT GGA GTC TGG TCA AGG TGT GGT GGA TCT
Pro Lys Glu Ala Phe Glu Gln Pro Gln Thr Ser Ser Thr Pro Pro Arg>

340   345   350   355   360   365   370   375   380
*    *    *    *    *    *    *    *    *
GAT TTA GAC TCC AAG GCT TGC ATT TCT ATT GGA AAT CAG AAC TTT GAG
CTA AAT CTG AGG TTC CGA ACG TAA AGA TAA CCT TTA GTC TTG AAA CTC
Asp Leu Asp Ser Lys Ala Cys Ile Ser Ile Gly Asn Gln Asn Phe Glu>

385   390   395   400   405   410   415   420   425   430
*    *    *    *    *    *    *    *    *    *
GTG AAG GCA GAT GAC CTG GAG CCT ATA ATG GAA CTG GGA CGA GGT GCG
CAC TTC CGT CTA CTG GAC CTC GGA TAT TAC CTT GAC CCT GCT CCA CGC
Val Lys Ala Asp Asp Leu Glu Pro Ile Met Glu Leu Gly Arg Gly Ala>

435   440   445   450   455   460   465   470   475   480
*    *    *    *    *    *    *    *    *    *
TAC GGG GTG GTG GAG AAG ATG CGG CAC GTG CCC AGC GGG CAG ATC ATG
ATG CCC CAC CAC CTC TTC TAC GCC GTG CAC GGG TCG CCC GTC TAG TAC
Tyr Gly Val Val Glu Lys Met Arg His Val Pro Ser Gly Gln Ile Met>

485   490   495   500   505   510   515   520   525
*    *    *    *    *    *    *    *    *
GCA GTG AAG CGG ATC CGA GCC ACA GTA AAT AGC CAG GAA CAG AAA CGG
CGT CAC TTC GCC TAG GCT CGG TGT CAT TTA TCG GTC CTT GTC TTT GCC
Ala Val Lys Arg Ile Arg Ala Thr Val Asn Ser Gln Glu Gln Lys Arg>

530   535   540   545   550   555   560   565   570   575
*    *    *    *    *    *    *    *    *    *
CTA CTG ATG GAT TTG GAT ATT TCC ATG AGG ACG GTG GAC TGT CCA TTC
GAT GAC TAC CTA AAC CTA TAA AGG TAC TCC TGC CAC CTG ACA GGT AAG

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FIG. 5 - CONT'D

Leu Leu Met Asp Leu Asp Ile Ser Met Arg Thr Val Asp Cys Pro Phe>  
 580 585 590 595 600 605 610 615 620  
 \* \* \* \* \*  
 ACT GTC ACC TTT TAT GGC GCA CTG TTT CGG GAG GGT GAT GTG TGG ATC  
 TGA CAG TGG AAA ATA CCG CGT GAC AAA GCC CTC CCA CTA CAC ACC TAG  
 Thr Val Thr Phe Tyr Gly Ala Leu Phe Arg Glu Gly Asp Val Trp Ile>  
 625 630 635 640 645 650 655 660 665 670  
 \* \* \* \* \*  
 TGC ATG GAG CTC ATG GAT ACA TCA CTA GAT AAA TTC TAC AAA CAA GTT  
 ACG TAC CTC GAG TAC CTA TGT AGT GAT CTA TTT AAG ATG TTT GTT CAA  
 Cys Met Glu Leu Met Asp Thr Ser Leu Asp Lys Phe Tyr Lys Gln Val>  
 675 680 685 690 695 700 705 710 715 720  
 \* \* \* \* \*  
 ATT GAT AAA GGC CAG ACA ATT CCA GAG GAC ATC TTA GGG AAA ATA GCA  
 TAA CTA TTT CCG GTC TGT TAA GGT CTC CTG TAG AAT CCC TTT TAT CGT  
 Ile Asp Lys Gly Gln Thr Ile Pro Glu Asp Ile Leu Gly Lys Ile Ala>  
 725 730 735 740 745 750 755 760 765  
 \* \* \* \* \*  
 GTT TCT ATT GTA AAA GCA TTA GAA CAT TTA CAT AGT AAG CTG TCT GTC  
 CAA AGA TAA CAT TTT CGT AAT CTT GTA AAT GTA TCA TTC GAC AGA CAG  
 Val Ser Ile Val Lys Ala Leu Glu His Leu His Ser Lys Leu Ser Val>  
 770 775 780 785 790 795 800 805 810 815  
 \* \* \* \* \*  
 ATT CAC AGA GAC GTC AAG CCT TCT AAT GTA CTC ATC AAT GCT CTC GGT  
 TAA GTG TCT CTG CAG TTC GGA AGA TTA CAT GAG TAG TTA CGA GAG CCA  
 Ile His Arg Asp Val Lys Pro Ser Asn Val Leu Ile Asn Ala Leu Gly>  
 820 825 830 835 840 845 850 855 860  
 \* \* \* \* \*  
 CAA GTG AAG ATG TGC GAT TTT GGA ATC AGT GGC TAC TTG GTG GAC TCT  
 GTT CAC TTC TAC ACG CTA AAA CCT TAG TCA CCG ATG AAC CAC CTG AGA  
 Gln Val Lys Met Cys Asp Phe Gly Ile Ser Gly Tyr Leu Val Asp Ser>  
 865 870 875 880 885 890 895 900 905 910  
 \* \* \* \* \*  
 GTT GCT AAA ACA ATT GAT GCA GGT TGC AAA CCA TAC ATG GCC CCT GAA  
 CAA CGA TTT TGT TAA CTA CGT CCA ACG TTT GGT ATG TAC CGG GGA CTT  
 Val Ala Lys Thr Ile Asp Ala Gly Cys Lys Pro Tyr Met Ala Pro Glu>  
 915 920 925 930 935 940 945 950 955 960  
 \* \* \* \* \*  
 AGA ATA AAC CCA GAG CTC AAC CAG AAG GGA TAC AGT GTG AAG TCT GAC  
 TCT TAT TTG GGT CTC GAG TTG GTC TTC CCT ATG TCA CAC TTC AGA CTG  
 Arg Ile Asn Pro Glu Leu Asn Gln Lys Gly Tyr Ser Val Lys Ser Asp>  
 965 970 975 980 985 990 995 1000 1005  
 \* \* \* \* \*  
 ATT TGG AGT CTG GGC ATC ACG ATG ATT GAG TTG GCC ATC CTT CGA TTT  
 TAA ACC TCA GAC CCG TAG TGC TAC TAA CTC AAC CGG TAG GAA GCT AAA  
 Ile Trp Ser Leu Gly Ile Thr Met Ile Glu Leu Ala Ile Leu Arg Phe>  
 1010 1015 1020 1025 1030 1035 1040 1045 1050 1055  
 \* \* \* \* \*  
 CCC TAT GAT TCA TGG GGA ACT CCA TTT CAG CAG CTC AAA CAG GTG GTA  
 GGG ATA CTA AGT ACC CCT TGA GGT AAA GTC GTC GAG TTT GTC CAC CAT  
 Pro Tyr Asp Ser Trp Gly Thr Pro Phe Gln Gln Leu Lys Gln Val Val>



FIG. 5 - CONT'D

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1060 1065 1070 1075 1080 1085 1090 1095 1100
* * * * *
GAG GAG CCA TCG CCA CAA CTC CCA GCA GAC AAG TTC TCT GCA GAG TTT
CTC CTC GGT AGC GGT GTT GAG GGT CGT CTG TTC AAG AGA CGT CTC AAA
Glu Glu Pro Ser Pro Gln Leu Pro Ala Asp Lys Phe Ser Ala Glu Phe>

1105 1110 1115 1120 1125 1130 1135 1140 1145 1150
* * * * *
GTT GAC TTT ACC TCA CAG TGC TTA AAG AAG AAT TCC AAA GAA CGG CCT
CAA CTG AAA TGG AGT GTC ACG AAT TTC TTC TTA AGG TTT CTT GCC GGA
Val Asp Phe Thr Ser Gln Cys Leu Lys Lys Asn Ser Lys Glu Arg Pro>

1155 1160 1165 1170 1175 1180 1185 1190 1195 1200
* * * * *
ACA TAC CCA GAG CTA ATG CAA CAT CCA TTT TTC ACC CTA CAT GAA TCC
TGT ATG GGT CTC GAT TAC GTT GTA GGT AAA AAG TGG GAT GTA CTT AGG
Thr Tyr Pro Glu Leu Met Gln His Pro Phe Phe Thr Leu His Glu Ser>

1205 1210 1215 1220 1225 1230 1235 1240 1245 1250
* * * * *
AAA GGA ACA GAT GTG GCA TCT TTT GTA AAA CTG ATT CTT GGA GAC TAAAA
TTT CCT TGT CTA CAC CGT AGA AAA CAT TTT GAC TAA GAA CCT CTG ATTTT
Lys Gly Thr Asp Val Ala Ser Phe Val Lys Leu Ile Leu Gly Asp> (SEQ ID NO:4)

1255 1260 1265 1270 1275 1280 1285 1290 1295 1300 1305 1310
* * * * *
AGCAGTGGAC TTAATCGGTT GACCCTACTG TGGATTGGTG GGTTTCGGGG TGAAGCAAGT
TCGTCACCTG AATTAGCCAA CTGGGATGAC ACCTAACCAC CCAAAGCCCC ACTTCGTTCA

1315 1320 1325 1330 1335 1340 1345 1350 1355 1360 1365 1370
* * * * *
TCACTACAGC ATCAATAGAA AGTCATCTTT GAGATAATTT AACCCCTGCCT CTCAGAGGGT
AGTGATGTCG TAGTTATCTT TCAGTAGAAA CTCTATTAAA TTGGGACGGA GAGTCTCCCA

1375 1380 1385 1390 1395 1400 1405 1410 1415 1420 1425 1430
* * * * *
TTTCTCTCCC AATTTTCTTT TTACTCCCCC TCTTAAGGGG GCCTTGGAAT CTATAGTATA
AAAGAGAGGG TTAAGAGAAA AATGAGGGGG AGAATTCCCC CGGAACCTTA GATATCATAT

1435 1440 1445 1450 1455 1460 1465 1470 1475 1480 1485 1490
* * * * *
GAATGAACTG TCTAGATGGA TGAATTATGA TAAAGGCTTA GGACTTCAAA AGGTGATTAA
CTTACTTGAC AGATCTACCT ACTTAATACT ATTTCCGAAT CCTGAAGTTT TCCACTAATT

1495 1500 1505 1510 1515 1520 1525 1530 1535 1540 1545 1550
* * * * *
ATATTTAATG ATGTGTCATA TGAGTCCTCA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA
TATAAATTAC TACACAGTAT ACTCAGGAGT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT

1555 1560 1565 1570 1575 1580 1585 1590 1595 1600
* * * * *
AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA AA (SEQ ID NO:3)
TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TT

```

FIG. 6

5	10	15	20	25	30	35	40	45	50	55
	*		*		*		*		*	
CTAGGGTCCC CGGCGCCAGG CCACCCGGCC GTCAGCAGC ATG CAG GGT AAA CGC AAA										
GATCCCAGGG GCCGCGGTCC GGTGGGCGCG CAGTCGTCTG TAC GTC CCA TTT GCG TTT										
Met Gln Gly Lys Arg Lys>										
60	65	70	75	80	85	90	95	100	105	
*		*		*		*		*		
GCA CTG AAG TTG AAT TTT GCA AAT CCA CCT TTC AAA TCT ACA GCA AGG										
CGT GAC TTC AAC TTA AAA CGT TTA GGT GGA AAG TTT AGA TGT CGT TCC										
Ala Leu Lys Leu Asn Phe Ala Asn Pro Pro Phe Lys Ser Thr Ala Arg>										
110	115	120	125	130	135	140	145	150		
*		*		*		*		*		
TTT ACT CTG AAT CCC AAT CCT ACA GGA GTT CAA AAC CCA CAC ATA GAG										
AAA TGA GAC TTA GGG TTA GGA TGT CCT CAA GTT TTG GGT GTG TAT CTC										
Phe Thr Leu Asn Pro Asn Pro Thr Gly Val Gln Asn Pro His Ile Glu>										
155	160	165	170	175	180	185	190	195	200	
	*		*		*		*		*	
AGA CTG AGA ACA CAC AGC ATT GAG TCA TCA GGA AAA CTG AAG ATC TCC										
TCT GAC TCT TGT GTG TCG TAA CTC AGT AGT CCT TTT GAC TTC TAG AGG										
Arg Leu Arg Thr His Ser Ile Glu Ser Ser Gly Lys Leu Lys Ile Ser>										
205	210	215	220	225	230	235	240	245		
	*		*		*		*			
CCT GAA CAA CAC TGG GAT TTC ACT GCA GAG GAC TTG AAA GAC CTT GGA										
GGA CTT GTT GTG ACC CTA AAG TGA CGT CTC CTG AAC TTT CTG GAA CCT										
Pro Glu Gln His Trp Asp Phe Thr Ala Glu Asp Leu Lys Asp Leu Gly>										
250	255	260	265	270	275	280	285	290	295	
*		*		*		*		*		
GAA ATT GGA CGA GGA GCT TAT GGT TCT GTC AAC AAA ATG GTC CAC AAA										
CTT TAA CCT GCT CCT CGA ATA CCA AGA CAG TTG TTT TAC CAG GTG TTT										
Glu Ile Gly Arg Gly Ala Tyr Gly Ser Val Asn Lys Met Val His Lys>										
300	305	310	315	320	325	330	335	340	345	
*		*		*		*		*		
CCA AGT GGG CAA ATA ATG GCA GTT AAA AGA ATT CGG TCA ACA GTG GAT										
GGT TCA CCC GTT TAT TAC CGT CAA TTT TCT TAA GCC AGT TGT CAC CTA										
Pro Ser Gly Gln Ile Met Ala Val Lys Arg Ile Arg Ser Thr Val Asp>										
350	355	360	365	370	375	380	385	390		
*		*		*		*		*		
GAA AAA GAA CAA AAA CAA CTT CTT ATG GAT TTG GAT GTA GTA ATG CGG										
CTT TTT CTT GTT TTT GTT GAA GAA TAC CTA AAC CTA CAT CAT TAC GCC										
Glu Lys Glu Gln Lys Gln Leu Leu Met Asp Leu Asp Val Val Met Arg>										
395	400	405	410	415	420	425	430	435	440	
	*		*		*		*		*	
AGT AGT GAT TGC CCA TAC ATT GTT CAG TTT TAT GGT GCA CTC TTC AGA										
TCA TCA CTA ACG GGT ATG TAA CAA GTC AAA ATA CCA CGT GAG AAG TCT										
Ser Ser Asp Cys Pro Tyr Ile Val Gln Phe Tyr Gly Ala Leu Phe Arg>										
445	450	455	460	465	470	475	480	485		
	*		*		*		*			
GAG GGT GAC TGT TGG ATC TGT ATG GAA CTC ATG TCT ACC TCG TTT GAT										
CTC CCA CTG ACA ACC TAG ACA TAC CTT GAG TAC AGA TGG AGC AAA CTA										
Glu Gly Asp Cys Trp Ile Cys Met Glu Leu Met Ser Thr Ser Phe Asp>										

FIG. 6 - CONT'D

490	495	500	505	510	515	520	525	530	535						
*		*		*		*		*							
AAG	TTT	TAC	AAA	TAT	GTA	TAT	AGT	GTA	TTA	GAT	GAT	GTT	ATT	CCA	GAA
TTC	AAA	ATG	TTT	ATA	CAT	ATA	TCA	CAT	AAT	CTA	CTA	CAA	TAA	GGT	CTT
Lys	Phe	Tyr	Lys	Tyr	Val	Tyr	Ser	Val	Leu	Asp	Asp	Val	Ile	Pro	Glu>
540	545	550	555	560	565	570	575	580	585						
*		*		*		*		*							
GAA	ATT	TTA	GGC	AAA	ATC	ACT	TTA	GCA	ACT	GTG	AAA	GCA	CTA	AAC	CAC
CTT	TAA	AAT	CCG	TTT	TAG	TGA	AAT	CGT	TGA	CAC	TTT	CGT	GAT	TTG	GTG
Glu	Ile	Leu	Gly	Lys	Ile	Thr	Leu	Ala	Thr	Val	Lys	Ala	Leu	Asn	His>
590	595	600	605	610	615	620	625	630							
*		*		*		*		*							
TTA	AAA	GAA	AAC	TTG	AAA	ATT	ATT	CAC	AGA	GAT	ATC	AAA	CCT	TCC	AAT
AAT	TTT	CTT	TTG	AAC	TTT	TAA	TAA	GTG	TCT	CTA	TAG	TTT	GGA	AGG	TTA
Leu	Lys	Glu	Asn	Leu	Lys	Ile	Ile	His	Arg	Asp	Ile	Lys	Pro	Ser	Asn>
635	640	645	650	655	660	665	670	675	680						
	*		*		*		*		*						
ATT	CTT	CTG	GAC	AGA	AGT	GGA	AAT	ATT	AAG	CTC	TGT	GAC	TTC	GGC	ATC
TAA	GAA	GAC	CTG	TCT	TCA	CCT	TTA	TAA	TTC	GAG	ACA	CTG	AAG	CCG	TAG
Ile	Leu	Leu	Asp	Arg	Ser	Gly	Asn	Ile	Lys	Leu	Cys	Asp	Phe	Gly	Ile>
685	690	695	700	705	710	715	720	725							
	*		*		*		*		*						
AGT	GGA	CAG	CTT	GTG	GAC	TCT	ATT	GCC	AAG	ACA	AGA	GAT	GCT	GGC	TGT
TCA	CCT	GTC	GAA	CAC	CTG	AGA	TAA	CGG	TTC	TGT	TCT	CTA	CGA	CCG	ACA
Ser	Gly	Gln	Leu	Val	Asp	Ser	Ile	Ala	Lys	Thr	Arg	Asp	Ala	Gly	Cys>
730	735	740	745	750	755	760	765	770	775						
*		*		*		*		*							
AGG	CCA	TAC	ATG	GCA	CCT	GAA	AGA	ATA	GAC	CCA	AGC	GCA	TCA	CGA	CAA
TCC	GGT	ATG	TAC	CGT	GGA	CTT	TCT	TAT	CTG	GGT	TCG	CGT	AGT	GCT	GTT
Arg	Pro	Tyr	Met	Ala	Pro	Glu	Arg	Ile	Asp	Pro	Ser	Ala	Ser	Arg	Gln>
780	785	790	795	800	805	810	815	820	825						
*		*		*		*		*							
GGA	TAT	GAT	GTC	CGC	TCT	GAT	GTC	TGG	AGT	TTG	GGG	ATC	ACA	TTG	TAT
CCT	ATA	CTA	CAG	GCG	AGA	CTA	CAG	ACC	TCA	AAC	CCC	TAG	TGT	AAC	ATA
Gly	Tyr	Asp	Val	Arg	Ser	Asp	Val	Trp	Ser	Leu	Gly	Ile	Thr	Leu	Tyr>
830	835	840	845	850	855	860	865	870							
*		*		*		*		*							
GAG	TTG	GCC	ACA	GGC	CGA	TTT	CCT	TAT	CCA	AAG	TGG	AAT	AGT	GTA	TTT
CTC	AAC	CGG	TGT	CCG	GCT	AAA	GGA	ATA	GGT	TTC	ACC	TTA	TCA	CAT	AAA
Glu	Leu	Ala	Thr	Gly	Arg	Phe	Pro	Tyr	Pro	Lys	Trp	Asn	Ser	Val	Phe>
875	880	885	890	895	900	905	910	915	920						
	*		*		*		*		*						
GAT	CAA	CTA	ACA	CAA	GTC	GTG	AAA	GGA	GAT	CCT	CCG	CAG	CTG	AGT	AAT
CTA	GTT	GAT	TGT	GTT	CAG	CAC	TTT	CCT	CTA	GGA	GGC	GTC	GAC	TCA	TTA
Asp	Gln	Leu	Thr	Gln	Val	Val	Lys	Gly	Asp	Pro	Pro	Gln	Leu	Ser	Asn>
925	930	935	940	945	950	955	960	965							
	*		*		*		*		*						
TCT	GAG	GAA	AGG	GAA	TTC	TCC	CCG	AGT	TTC	ATC	AAC	TTT	GTC	AAC	TTG
AGA	CTC	CTT	TCC	CTT	AAG	AGG	GGC	TCA	AAG	TAG	TTG	AAA	CAG	TTG	AAC
Ser	Glu	Glu	Arg	Glu	Phe	Ser	Pro	Ser	Phe	Ile	Asn	Phe	Val	Asn	Leu>
970	975	980	985	990	995	1000	1005	1010	1015						
*		*		*		*		*							

FIG. 6 - CONT'D

TGC CTT ACG AAG GAT GAA TCC AAA AGG CCA AAG TAT AAA GAG CTT CTG  
 ACG GAA TGC TTC CTA CTT AGG TTT TCC GGT TTC ATA TTT CTC GAA GAC  
 Cys Leu Thr Lys Asp Glu Ser Lys Arg Pro Lys Tyr Lys Glu Leu Leu>

1020 1025 1030 1035 1040 1045 1050 1055 1060 1065  
 \* \* \* \* \*  
 AAA CAT CCC TTT ATT TTG ATG TAT GAA GAA CGT GCC GTT GAG GTC GCA  
 TTT GTA GGG AAA TAA AAC TAC ATA CTT CTT GCA CGG CAA CTC CAG CGT  
 Lys His Pro Phe Ile Leu Met Tyr Glu Glu Arg Ala Val Glu Val Ala>

1070 1075 1080 1085 1090 1095 1100 1105 1110  
 \* \* \* \* \*  
 TGC TAT GTT TGT AAA ATC CTG GAT CAA ATG CCA GCT ACT CCC AGC TCT  
 ACG ATA CAA ACA TTT TAG GAC CTA GTT TAC GGT CGA TGA GGG TCG AGA  
 Cys Tyr Val Cys Lys Ile Leu Asp Gln Met Pro Ala Thr Pro Ser Ser>

1115 1120 1125 1130 1135 1140 1145 1150 1155 1160 1165 1170  
 \* \* \* \* \*  
 CCC ATG TAT GTC GAT TG ATATCGYTGC TACATCAGAC TCTAGAAAAA AGGGCTGAGA  
 GGG TAC ATA CAG CTA AC TATAGCRACG ATGTAGTCTG AGATCTTTTT TCCCGACTCT  
 Pro Met Tyr Val Asp> (SEQ ID NO:6)

1175 1180 1185 1190 1195 1200 1205 1210 1215 1220 1225 1230  
 \* \* \* \* \*  
 GGAAGCAAGA CGTAAAGAAT TTTCATCCCG TATCACAGTG TTTTATTTCG TCGCCAGAC  
 CCTTCGTTCT GCATTTCTTA AAAGTAGGGC ATAGTGTAC AAAAAAATACG AGCGGGTCTG

1235 1240 1245 1250 1255 1260 1265 1270 1275 1280 1285 1290  
 \* \* \* \* \*  
 ACCATGTGCA ATAAGATTGG TGTTCGTTTC CATCATGTCT GTATACTCCT GTCACCTAGA  
 TGGTACACGT TATTCTAACC ACAAGCAAAG GTAGTACAGA CATATGAGGA CAGTGGATCT

1295 1300 1305 1310 1315 1320 1325 1330 1335 1340 1345 1350  
 \* \* \* \* \*  
 ACGTGCATCC TTGTAATACC TGATTGATCA CACAGTGTTA GTGCTGGTCA GAGAGACCTC  
 TGCACGTAGG AACATTATGG ACTAACTAGT GTGTCACAAT CACGACCAGT CTCTCTGGAG

1355 1360 1365 1370 1375 1380 1385 1390 1395 1400 1405 1410  
 \* \* \* \* \*  
 ATCCTGCTCT TTTGTGATGA ACATATTCAT GAAATGTGGA AGTCAGTACG ATCAAGTTGT  
 TAGGACGAGA AAACACTACT TGTATAAGTA CTTTACACCT TCAGTCATGC TAGTTCAACA

1415 1420 1425 1430 1435 1440 1445 1450 1455 1460 1465 1470  
 \* \* \* \* \*  
 TGA CTGTGAT TAGATCACAT CTTAAATTCA TTTCTAGACT CAAAACCTCG AGATGCAGCT  
 ACTGACACTA ATCTAGTGTA GAATTTAAGT AAAGATCTGA GTTTTGGACC TCTACGTCGA

1475 1480 1485 1490 1495 1500 1505 1510 1515 1520 1525 1530  
 \* \* \* \* \*  
 ACTGGAATGG TGTTTTGTCA GACTTCCAAA TCCTGGAAGG ACACAGTGAT GAATGTACTA  
 TGACCTTACC ACAAACAGT CTGAAGGTTT AGGACCTTCC TGTGTCACTA CTTACATGAT

1535 1540 1545 1550 1555 1560 1565 1570 1575 1580 1585 1590  
 \* \* \* \* \*  
 TATCTGAACA TAGAACTCG GGCTTGAGTG AGAAGAGCTT GCACAGCCAA CGAGACACAT  
 ATAGACTTGT ATCTTTGAGC CCGAACTCAC TCTTCTCGAA CGTGTGCGTT GCTCTGTGTA

1595 1600 1605 1610 1615 1620 1625 1630 1635 1640 1645 1650  
 \* \* \* \* \*  
 TGCCTTCTGG AGCTGGGAGA CAAAGGAGGA ATTTACTTTC TTCACCAAGT GCAATAGATT  
 ACGGAAGACC TCGACCTCT GTTCTCTCT TAAATGAAAG AAGTGGTTCA CGTTATCTAA

FIG. 6 - CONT'D

1655 1660	1665 1670	1675 1680	1685 1690	1695 1700	1705 1710
ACTGATGTGA	TATTCTGTTG	CTTTACAGTT	ACAGTTGATG	TTTGGGGATC	GATGTGCTCA
TGACTACACT	ATAAGACAAC	GAAATGTCAA	TGTCAACTAC	AAACCCCTAG	CTACACGAGT
1715 1720	1725 1730	1735 1740	1745 1750	1755 1760	1765 1770
GCCAAATTTT	CTGTTTGAAA	TATCATGTTA	AATTAGAATG	AATTTATCTT	TACCAAAAAC
CGGTTTAAAG	GACAAACTTT	ATAGTACAAT	TTAATCTTAC	TTAAATAGAA	ATGGTTTTTG
1775 1780	1785 1790	1795 1800	1805 1810	1815 1820	1825 1830
CATGTTGCGT	TCAAAGAGGT	GAACATTAAA	ATATAGAGAC	AGGACAGAAT	GTGTTCTTTT
GTACAACGCA	AGTTTCTCCA	CTTGTAATTT	TATATCTCTG	TCCTGTCTTA	CACAAGAAAA
1835 1840	1845 1850	1855 1860	1865 1870	1875 1880	1885 1890
CTCCTCTACC	AGTCCTATTT	TTCAATGGGA	AGACTCAGGA	GTCTGCCACT	TGTCAAAGAA
GAGGAGATGG	TCAGGATAAA	AAGTTACCCT	TCTGAGTCCT	CAGACGGTGA	ACAGTTTCTT
1895 1900	1905 1910	1915 1920	1925 1930	1935 1940	1945 1950
GGTGCTGATC	CTAAGAAATTT	TTCATTCTCA	GAATTCGGTG	TGCTGCCAAC	TTGATGTTCC
CCACGACTAG	GATTCTTAAA	AAGTAAGAGT	CTTAAGCCAC	ACGACGGTTG	AACTACAAGG
1955 1960	1965 1970	1975 1980	1985 1990	1995 2000	2005 2010
ACCTGCCACA	AACCACCAGG	ACTGAAAGAA	GAAAACAGTA	CAGAAGGCCAA	AGTTTACAGA
TGGACGGTGT	TTGGTGGTCC	TGACTTTCTT	CTTTTGTGTC	GTCTTCCGTT	TCAAATGTCT
2015 2020	2025 2030	2035 2040	2045 2050	2055 2060	2065 2070
TGTTTTTAAT	TCTAGTATTT	TATCTGGAAC	AACTTGTAGC	AGCTATATAT	TTCCCCCTTG
ACAAAAATTA	AGATCATAAA	ATAGACCTTG	TTGAACATCG	TCGATATATA	AAGGGGAACC
2075 2080	2085 2090	2095 2100	2105 2110	2115 2120	2125 2130
TCCCAAGCCT	GATACTTTAG	CCATCATAAC	TCACTAACAG	GGAGAAGTAG	CTAGTAGCAA
AGGGTTCCGA	CTATGAAATC	GGTAGTATTG	AGTGATTGTC	CCTCTTCATC	GATCATCGTT
2135 2140	2145 2150	2155 2160	2165 2170	2175 2180	2185 2190
TGTGCCTTGA	TTGATTAGAT	AAAGATTTCT	AGTAGGCAGC	AAAAGACCAA	ATCTCAGTTG
ACACGGAAC	AACTAATCTA	TTTCTAAAGA	TCATCCGTCG	TTTTCTGGTT	TAGAGTCAAC
2195 2200	2205 2210	2215 2220	2225 2230	2235 2240	2245 2250
TTTGCTTCTT	GCCATCACTG	GTCCAGGTCT	TCAGTTTCCG	AATCTCTTTC	CCTTCCCCTG
AAACGAAGAA	CGGTAGTGAC	CAGGTCCAGA	AGTCAAAGGC	TTAGAGAAAG	GGAAGGGGAC
2255 2260	2265 2270	2275 2280	2285 2290	2295 2300	2305 2310
TGGTCTATTG	TCGCTATGTG	ACTTGCGCTT	AATCCAATAT	TTTGCCTTTT	TTCTATATCA
ACCAGATAAC	AGCGATACAC	TGAACGCGAA	TTAGGTTATA	AAACGGAAAA	AAGATATAGT
2315 2320	2325 2330	2335 2340	2345 2350	2355 2360	2365 2370
AAAAACCTTT	ACAGTTAGCA	GGGATGTTCC	TTACCGAGGA	TTTTTAACCC	CCAATCTCTC
TTTTTGAAAA	TGTCAATCGT	CCCTACAAGG	AATGGCTCCT	AAAAATTGGG	GGTTAGAGAG
2375 2380	2385 2390	2395 2400	2405 2410	2415 2420	2425 2430

FIG. 6 - CONT'D

ATAATCGCTA	GTGTTTAAAA	GGCTAAGAAT	AGTGGGGCCC	AACCGATGTG	GTAGGTGATA
TATTAGCGAT	CACAAATTTT	CCGATTCTTA	TCACCCCGGG	TTGGCTACAC	CATCCACTAT
2435 2440	2445 2450	2455 2460	2465 2470	2475 2480	2485 2490
*	*	*	*	*	*
AAGAGGCATC	TTTTCTAGAG	ACACATTGGA	CCAGATGAGG	ATCCGAAACG	GCAGCCTTTA
TTCTCCGTAG	AAAAGATCTC	TGTGTAACCT	GGTCTACTCC	TAGGCTTTGC	CGTCGGAAAT
2495 2500	2505 2510	2515 2520	2525 2530	2535 2540	2545 2550
*	*	*	*	*	*
CGTTCATCAC	CTGCTAGAAC	CTCTCGTAGT	CCATCACCAT	TTCTTGGCAT	TGGAATTCTA
GCAAGTAGTG	GACGATCTTG	GAGAGCATCA	GGTAGTGGTA	AAGAACCGTA	ACCTTAAGAT
2555 2560	2565 2570	2575 2580	2585 2590	2595 2600	2605 2610
*	*	*	*	*	*
CTGGAAAAAA	ATACAAAAAG	CAAAACAAAA	CCCTCAGCAC	TGTTACAAGA	GGCCATTTAA
GACCTTTTTT	TATGTTTTTC	GTTTTGTTTT	GGGAGTCGTG	ACAATGTTCT	CCGGTAAATT
2615 2620	2625 2630	2635 2640	2645 2650	2655 2660	2665 2670
*	*	*	*	*	*
GTATCTTGTG	CTTCTTCACT	TACCCATTAG	CCAGGTTCCTC	ATTAGGTTTT	GCTTGGGCCT
CATAGAACAC	GAAGAAGTGA	ATGGGTAATC	GGTCCAAGAG	TAATCCAAAA	CGAACCCGGA
2675 2680	2685 2690	2695 2700	2705 2710	2715 2720	2725 2730
*	*	*	*	*	*
CCCTGGCACT	GAACCTTAGG	CTTTGTATGA	CAGTGAAGCA	GCACTGTGAG	TGGTTCAAGC
GGGACCGTGA	CTTGGAATCC	GAAACATACT	GTCACTTCGT	CGTGACACTC	ACCAAGTTCCG
2735 2740	2745 2750	2755 2760	2765 2770	2775 2780	2785 2790
*	*	*	*	*	*
ACACTGGAAT	ATAAAACAGT	CATGGCCTGA	GATGCAGGTG	ATGCCATTAC	AGAACCAAAT
TGTGACCTTA	TATTTTGTCA	GTACCGGACT	CTACGTCCAC	TACGGTAATG	TCTTGGTTTA
2795 2800	2805 2810	2815 2820	2825 2830	2835 2840	2845 2850
*	*	*	*	*	*
CGTGGCACGT	ATTGCTGTGT	CTCCTCTCAG	AGTGACAGTC	ATAAATACTG	TCAAACAATA
GCACCGTGCA	TAACGACACA	GAGGAGAGTC	TACTGTGTCAG	TATTTATGAC	AGTTTGTAT
2855 2860	2865 2870	2875 2880	2885 2890	2895 2900	2905 2910
*	*	*	*	*	*
AAGGGAGAAT	GGTGCTGTTT	AAAGTCACAT	CCCTGTAAAT	TGCAGAATTTC	AAAAGTGATT
TTCCCTCTTA	CCACGACAAA	TTTCAGTGTA	GGGACATTTA	ACGTCTTAAG	TTTTCACTAA
2915 2920	2925 2930	2935 2940	2945 2950	2955 2960	2965 2970
*	*	*	*	*	*
ATCTCTTTGA	TCTACTTGCC	TCATTTCCCT	ATCTTCTCCC	CCACGGTATC	CTAAACTTTA
TAGAGAAACT	AGATGAACCG	AGTAAAGGGA	TAGAAGAGGG	GGTGCCATAG	GATTTGAAAT
2975 2980	2985 2990	2995 3000	3005 3010	3015 3020	3025 3030
*	*	*	*	*	*
GACTTCCCAC	TGTTCCTGAAA	GGAGACATTG	CTCTATGTCT	GCCTTCGACC	ACAGCAAGCC
CTGAAGGGTG	ACAAGACTTT	CCTCTGTAAC	GAGATACAGA	CGGAAGCTGG	TGTCGTTCCG
3035 3040	3045 3050	3055 3060	3065 3070	3075 3080	3085 3090
*	*	*	*	*	*
ATCATCCTCC	ATTGCTCCCG	GGGACTCAAG	AGGAATCTGT	TTCTCTGCTG	TCAACTTCCC
TAGTAGGAGG	TAACGAGGGC	CCCTGAGTTC	TCCTTAGACA	AAGAGACGAC	AGTTGAAGGG
3095 3100	3105 3110	3115 3120	3125 3130	3135 3140	3145 3150
*	*	*	*	*	*
ATCTGGCTCA	GCATAGGGTC	ACTTTGCCAT	TATGCAAATG	GAGATAAAAG	CAATTCTGGC
TAGACCGAGT	CGTATCCCG	TGAAACGGTA	ATACGTTTAC	CTCTATTTTC	GTTAAGACCG

FIG. 6 - CONT'D

3155	3160	3165	3170	3175	3180	3185	3190	3195	3200	3205	3210
	*		*		*		*		*		*
TGTCCAGGAG	CTAATCTGAC	CGTTCCTATTG	TGTGGATGAC	CACATAAGAA	GGCAATTTTA						
ACAGGTCCTC	GATTAGACTG	GCAAGATAAC	ACACCTACTG	GTGTATTCTT	CCGTTAAAAT						
3215	3220	3225	3230	3235	3240	3245	3250	3255	3260	3265	3270
	*		*		*		*		*		*
GTGTATTAAT	CATAGATTAT	TATAAACTAT	AAACTTAAGG	GCAAGGAGTT	TATTACAATG						
CACATAATTA	GTATCTAATA	ATATTTGATA	TTTGAATTCC	CGTTCCTCAA	ATAATGTTAC						
3275	3280	3285	3290	3295	3300	3305	3310	3315	3320	3325	3330
	*		*		*		*		*		*
TATCTTTTATT	AAAACAAAAG	GGTGTATAGT	GTTACACAAAC	TGTGAAAATA	GTGTAAGAAC						
ATAGAAATAA	TTTTGTMTTC	CCACATATCA	CAAGTGTMTG	ACACTTTTAT	CACATTCCTG						
3335	3340	3345	3350	3355	3360	3365	3370	3375	3380	3385	3390
	*		*		*		*		*		*
TGTACATTGT	GAGCTCTGGT	TATTTTCTCT	TTGTACCATA	GAAAAATGTA	TAAAAATTAT						
ACATGTAACA	CTCGAGACCA	ATAAAAAGAG	AACATGGTAT	CTTTTACAT	ATTTTAAATA						
3395	3400	3405	3410	3415	3420	3425	3430	3435	3440	3445	3450
	*		*		*		*		*		*
CAAAAAGCTA	ATGTGCAGGG	ATATTGCCTT	ATTTGTCTGT	AAAAAATGGA	GCTCAGTAAC						
GTTTTTCGAT	TACACGTCCC	TATAACGGAA	TAAACAGACA	TTTTTTACCT	CGAGTCATTG						
3455	3460	3465	3470	3475	3480	3485	3490	3495			
	*		*		*		*				
ATAACTGCTT	CTTGGAGCTT	TGGAATATTT	TATCCTGTAT	TCTTGTTT	(SEQ ID NO:5)						
TATTGACGAA	GAACCTCGAA	ACCTTATAAA	ATAGGACATA	AGAACAAA							

FIG. 7

5	10	15	20	25	30	35	40	45	50
	*		*		*		*		*
CAACA	ATG	GCG	GCT	CCG	AGC	CCG	AGC	GGT	GGC
GTTGT	TAC	CGC	CGA	GGC	TCG	GGC	TCG	CCA	CCG
Met	Ala	Ala	Pro	Ser	Pro	Ser	Gly	Gly	Gly
55	60	65	70	75	80	85	90	95	
	*		*		*		*		
GGC	CCC	GTA	GGG	TCC	CCG	GCG	CCA	GGC	CAC
CCG	GGG	CAT	CCC	AGG	GGC	CGC	GGT	CCG	GTG
Gly	Pro	Val	Gly	Ser	Pro	Ala	Pro	Gly	His
100	105	110	115	120	125	130	135	140	145
*		*		*		*		*	
CAG	GGT	AAA	CGC	AAA	GCA	CTG	AAG	TTG	AAT
GTC	CCA	TTT	GCG	TTT	CGT	GAC	TTC	AAC	TTA
Gln	Gly	Lys	Arg	Lys	Ala	Leu	Lys	Leu	Asn
150	155	160	165	170	175	180	185	190	
*		*		*		*		*	
AAA	TCT	ACA	GCA	AGG	TTT	ACT	CTG	AAT	CCC
TTT	AGA	TGT	CGT	TCC	AAA	TGA	GAC	TTA	GGG
Lys	Ser	Thr	Ala	Arg	Phe	Thr	Leu	Asn	Pro
195	200	205	210	215	220	225	230	235	240
	*		*		*		*		*
AAC	CCA	CAC	ATA	GAG	AGA	CTG	AGA	ACA	CAC
TTG	GGT	GTG	TAT	CTC	TCT	GAC	TCT	TGT	GTG
Asn	Pro	His	Ile	Glu	Arg	Leu	Arg	Thr	His
245	250	255	260	265	270	275	280	285	290
	*		*		*		*		*
AAA	CTG	AAG	ATC	TCC	CCT	GAA	CAA	CAC	TGG
TTT	GAC	TTC	TAG	AGG	GGA	CTT	GTT	GTG	ACC
Lys	Leu	Lys	Ile	Ser	Pro	Glu	Gln	His	Trp
295	300	305	310	315	320	325	330	335	
	*		*		*		*		
TTG	AAA	GAC	CTT	GGA	GAA	ATT	GGA	CGA	GGA
AAC	TTT	CTG	GAA	CCT	CTT	TAA	CCT	GCT	CGA
Leu	Lys	Asp	Leu	Gly	Glu	Ile	Gly	Arg	Gly
340	345	350	355	360	365	370	375	380	385
*		*		*		*		*	
AAA	ATG	GTC	CAC	AAA	CCA	AGT	GGG	CAA	ATA
TTT	TAC	CAG	GTG	TTT	GGT	TCA	CCC	GTT	TAT
Lys	Met	Val	His	Lys	Pro	Ser	Gly	Gln	Ile
390	395	400	405	410	415	420	425	430	
*		*		*		*		*	
CGG	TCA	ACA	GTG	GAT	GAA	AAA	GAA	CAA	AAA
GCC	AGT	TGT	CAC	CTA	CTT	TTT	CTT	GTT	TTT
Arg	Ser	Thr	Val	Asp	Glu	Lys	Glu	Gln	Lys
435	440	445	450	455	460	465	470	475	480
	*		*		*		*		*
GAT	GTA	GTA	ATG	CGG	AGT	AGT	GAT	TGC	CCA
CTA	CAT	CAT	TAC	GCC	TCA	TCA	CTA	ACG	GGT
Asp	Val	Val	Met	Arg	Ser	Ser	Asp	Cys	Pro



FIG. 7 - CONT'D

485      490      495      500      505      510      515      520      525      530  
          \*                   \*                   \*                   \*                   \*  
 GGT GCA CTC TTC AGA GAG GGT GAC TGT TGG ATC TGT ATG GAA CTC ATG  
 CCA CGT GAG AAG TCT CTC CCA CTG ACA ACC TAG ACA TAC CTT GAG TAC  
 Gly Ala Leu Phe Arg Glu Gly Asp Cys Trp Ile Cys Met Glu Leu Met>

535      540      545      550      555      560      565      570      575  
          \*                   \*                   \*                   \*                   \*  
 TCT ACC TCG TTT GAT AAG TTT TAC AAA TAT GTA TAT AGT GTA TTA GAT  
 AGA TGG AGC AAA CTA TTC AAA ATG TTT ATA CAT ATA TCA CAT AAT CTA  
 Ser Thr Ser Phe Asp Lys Phe Tyr Lys Tyr Val Tyr Ser Val Leu Asp>

580      585      590      595      600      605      610      615      620      625  
          \*                   \*                   \*                   \*                   \*                   \*  
 GAT GTT ATT CCA GAA GAA ATT TTA GGC AAA ATC ACT TTA GCA ACT GTG  
 CTA CAA TAA GGT CTT CTT TAA AAT CCG TTT TAG TGA AAT CGT TGA CAC  
 Asp Val Ile Pro Glu Glu Ile Leu Gly Lys Ile Thr Leu Ala Thr Val>

630      635      640      645      650      655      660      665      670  
          \*                   \*                   \*                   \*                   \*                   \*  
 AAA GCA CTA AAC CAC TTA AAA GAA AAC TTG AAA ATT ATT CAC AGA GAT  
 TTT CGT GAT TTG GTG AAT TTT CTT TTG AAC TTT TAA TAA GTG TCT CTA  
 Lys Ala Leu Asn His Leu Lys Glu Asn Leu Lys Ile Ile His Arg Asp>

675      680      685      690      695      700      705      710      715      720  
          \*                   \*                   \*                   \*                   \*                   \*  
 ATC AAA CCT TCC AAT ATT CTT CTG GAC AGA AGT GGA AAT ATT AAG CTC  
 TAG TTT GGA AGG TTA TAA GAA GAC CTG TCT TCA CCT TTA TAA TTC GAG  
 Ile Lys Pro Ser Asn Ile Leu Leu Asp Arg Ser Gly Asn Ile Lys Leu>

725      730      735      740      745      750      755      760      765      770  
          \*                   \*                   \*                   \*                   \*                   \*  
 TGT GAC TTC GGC ATC AGT GGA CAG CTT GTG GAC TCT ATT GCC AAG ACA  
 ACA CTG AAG CCG TAG TCA CCT GTC GAA CAC CTG AGA TAA CGG TTC TGT  
 Cys Asp Phe Gly Ile Ser Gly Gln Leu Val Asp Ser Ile Ala Lys Thr>

775      780      785      790      795      800      805      810      815  
          \*                   \*                   \*                   \*                   \*                   \*  
 AGA GAT GCT GGC TGT AGG CCA TAC ATG GCA CCT GAA AGA ATA GAC CCA  
 TCT CTA CGA CCG ACA TCC GGT ATG TAC CGT GGA CTT TCT TAT CTG GGT  
 Arg Asp Ala Gly Cys Arg Pro Tyr Met Ala Pro Glu Arg Ile Asp Pro>

820      825      830      835      840      845      850      855      860      865  
          \*                   \*                   \*                   \*                   \*                   \*  
 AGC GCA TCA CGA CAA GGA TAT GAT GTC CGC TCT GAT GTC TGG AGT TTG  
 TCG CGT AGT GCT GTT CCT ATA CTA CAG GCG AGA CTA CAG ACC TCA AAC  
 Ser Ala Ser Arg Gln Gly Tyr Asp Val Arg Ser Asp Val Trp Ser Leu>

870      875      880      885      890      895      900      905      910  
          \*                   \*                   \*                   \*                   \*                   \*  
 GGG ATC ACA TTG TAT GAG TTG GCC ACA GGC CGA TTT CCT TAT CCA AAG  
 CCC TAG TGT AAC ATA CTC AAC CGG TGT CCG GCT AAA GGA ATA GGT TTC  
 Gly Ile Thr Leu Tyr Glu Leu Ala Thr Gly Arg Phe Pro Tyr Pro Lys>

915      920      925      930      935      940      945      950      955      960  
          \*                   \*                   \*                   \*                   \*                   \*  
 TGG AAT AGT GTA TTT GAT CAA CTA ACA CAA GTC GTG AAA GGA GAT CCT  
 ACC TTA TCA CAT AAA CTA GTT GAT TGT GTT CAG CAC TTT CCT CTA GGA  
 Trp Asn Ser Val Phe Asp Gln Leu Thr Gln Val Val Lys Gly Asp Pro>

965      970      975      980      985      990      995      1000      1005      1010  
          \*                   \*                   \*                   \*                   \*                   \*

FIG. 7 - CONT'D

CCG CAG CTG AGT AAT TCT GAG GAA AGG GAA TTC TCC CCG AGT TTC ATC  
 GGC GTC GAC TCA TTA AGA CTC CTT TCC CTT AAG AGG GGC TCA AAG TAG  
 Pro Gln Leu Ser Asn Ser Glu Glu Arg Glu Phe Ser Pro Ser Phe Ile>

1015 1020 1025 1030 1035 1040 1045 1050 1055

AAC TTT GTC AAC TTG TGC CTT ACG AAG GAT GAA TCC AAA AGG CCA AAG  
 TTG AAA CAG TTG AAC ACG GAA TGC TTC CTA CTT AGG TTT TCC GGT TTC  
 Asn Phe Val Asn Leu Cys Leu Thr Lys Asp Glu Ser Lys Arg Pro Lys>

1060 1065 1070 1075 1080 1085 1090 1095 1100 1105

TAT AAA GAG CTT CTG AAA CAT CCC TTT ATT TTG ATG TAT GAA GAA CGT  
 ATA TTT CTC GAA GAC TTT GTA GGG AAA TAA AAC TAC ATA CTT CTT GCA  
 Tyr Lys Glu Leu Leu Lys His Pro Phe Ile Leu Met Tyr Glu Glu Arg>

1110 1115 1120 1125 1130 1135 1140 1145 1150

GCC GTT GAG GTC GCA TGC TAT GTT TGT AAA ATC CTG GAT CAA ATG CCA  
 CGG CAA CTC CAG CGT ACG ATA CAA ACA TTT TAG GAC CTA GTT TAC GGT  
 Ala Val Glu Val Ala Cys Tyr Val Cys Lys Ile Leu Asp Gln Met Pro>

1155 1160 1165 1170 1175 1180 1185 1190 1195 1200

GCT ACT CCC AGC TCT CCC ATG TAT GTC GAT TGATAT CGYTGCTACA  
 CGA TGA GGG TCG AGA GGG TAC ATA CAG CTA ACTATA GCRACGATGT  
 Ala Thr Pro Ser Ser Pro Met Tyr Val Asp> (SEQ ID NO:8)

1205 1210 1215 1220 1225 1230 1235 1240 1245 1250 1255 1260

TCAGACTCTA GAAAAAAGGG CTGAGAGGAA GCAAGACGTA AAGAATTTTC ATCCCGTATC  
 AGTCTGAGAT CTTTTTCCC GACTCTCCTT CGTCTGTCAT TTCTTAAAAG TAGGGCATAG

1265 1270 1275 1280 1285 1290 1295 1300 1305 1310 1315 1320

ACAGTGTTTT TATTGCTCGC CCAGACACCA TGTGCAATAA GATTGGTGTG CGTTTCCATC  
 TGTACAAAA ATAACGAGCG GGTCTGTGGT ACACGTTATT CTAACCACAA GCAAAGGTAG

1325 1330 1335 1340 1345 1350 1355 1360 1365 1370 1375 1380

ATGTCTGTAT ACTCCTGTCA CCTAGAACGT GCATCCTTGT AATACCTGAT TGATCACACA  
 TACAGACATA TGAGGACAGT GGATCTTGCA CGTAGGAACA TTATGGACTA ACTAGTGTGT

1385 1390 1395 1400 1405 1410 1415 1420 1425 1430 1435 1440

GTGTTAGTGC TGGTCAGAGA GACCTCATCC TGCTCTTTTG TGATGAACAT ATTTCATGAA  
 CACAATCACG ACCAGTCTCT CTGGAGTAGG ACGAGAAAAC ACTACTTGTA TAAGTACTTT

1445 1450 1455 1460 1465 1470 1475 1480 1485 1490 1495 1500

TGTGGAAGTC AGTACGATCA AGTTGTGAC TGTGATTAGA TCACATCTTA AATTCATTTT  
 ACACCTTCAG TCATGCTAGT TCAACAACCTG AACTAATCT AGTGTAGAAT TTAAGTAAAG

1505 1510 1515 1520 1525 1530 1535 1540 1545 1550 1555 1560

TAGACTCAAA ACCTGGAGAT GCAGCTACTG GAATGGTGTG TTGTCAGACT TCCAAATCCT  
 ATCTGAGTTT TGGACCTCTA CGTCGATGAC CTTACCACAA AACAGTCTGA AGGTTTATGA

1565 1570 1575 1580 1585 1590 1595 1600 1605 1610 1615 1620

GGAAGGACAC AGTGATGAAT GTACTATATC TGAACATAGA AACTCGGGCT TGAGTGAGAA  
 CCTTCCTGTG TCACTACTTA CATGATATAG ACTTGTATCT TTGAGCCCGA ACTCACTCTT

FIG. 7 - CONT'D

1625	1630	1635	1640	1645	1650	1655	1660	1665	1670	1675	1680
	*		*		*		*		*		*
GAGCTTGCAC	AGCCAACGAG	ACACATTGCC	TTCTGGAGCT	GGGAGACAAA	GGAGGAATTT						
CTCGAACGTG	TCGGTTGCTC	TGTGTAACGG	AAGACCTCGA	CCCTCTGTTT	CCTCCTTAAA						
1685	1690	1695	1700	1705	1710	1715	1720	1725	1730	1735	1740
	*		*		*		*		*		*
ACTTTCTTCA	CCAAGTGCAA	TAGATTACTG	ATGTGATATT	CTGTTGCTTT	ACAGTTACAG						
TGAAAGAAGT	GGTTCACGTT	ATCTAATGAC	TACACTATAA	GACAACGAAA	TGTCAATGTC						
1745	1750	1755	1760	1765	1770	1775	1780	1785	1790	1795	1800
	*		*		*		*		*		*
TTGATGTTTG	GGGATCGATG	TGCTCAGCCA	AATTTCTCTG	TTGAAATATC	ATGTTAAATT						
AACTACAAAC	CCCTAGCTAC	ACGAGTCGGT	TTAAAGGACA	AACTTTATAG	TACAATTTAA						
1805	1810	1815	1820	1825	1830	1835	1840	1845	1850	1855	1860
	*		*		*		*		*		*
AGAATGAATT	TATCTTTACC	AAAAACCATG	TTGCGTTCAA	AGAGGTGAAC	ATTAAAATAT						
TCTTACTTAA	ATAGAAATGG	TTTTTGGTAC	AACGCAAGTT	TCTCCACTTG	TAATTTTATA						
1865	1870	1875	1880	1885	1890	1895	1900	1905	1910	1915	1920
	*		*		*		*		*		*
AGAGACAGGA	CAGAATGTGT	TCTTTTCTCC	TCTACCAGTC	CTATTTTTC	ATGGGAAGAC						
TCTCTGTCCT	GTCTTACACA	AGAAAAGAGG	AGATGGTCAG	GATAAAAAGT	TACCCTTCTG						
1925	1930	1935	1940	1945	1950	1955	1960	1965	1970	1975	1980
	*		*		*		*		*		*
TCAGGAGTCT	GCCACTTGTC	AAAGAAGGTG	CTGATCCTAA	GAATTTTTC	TTCTCAGAAT						
AGTCCTCAGA	CGGTGAACAG	TTTCTTCCAC	GACTAGGATT	CTTAAAAAGT	AAGAGTCTTA						
1985	1990	1995	2000	2005	2010	2015	2020	2025	2030	2035	2040
	*		*		*		*		*		*
TCGGTGTGCT	GCCAACTTGA	TGTTCCACCT	GCCACAAACC	ACCAGGACTG	AAAGAAGAAA						
AGCQACACGA	CGGTTGAACT	ACAAGGTGGA	CGGTGTTTGG	TGGTCCTGAC	TTTCTCTTTT						
2045	2050	2055	2060	2065	2070	2075	2080	2085	2090	2095	2100
	*		*		*		*		*		*
ACAGTACAGA	AGGCAAAGTT	TACAGATGTT	TTTAATTCTA	GTATTTTATC	TGGAACAACT						
TGTCATGTCT	TCCGTTTCAA	ATGTCTACAA	AAATTAAGAT	CATAAAATAG	ACCTTGTTGA						
2105	2110	2115	2120	2125	2130	2135	2140	2145	2150	2155	2160
	*		*		*		*		*		*
TGTAGCAGCT	ATATATTTCC	CCTTGGTCCC	AAGCCTGATA	CTTTAGCCAT	CATAACTCAC						
ACATCGTCGA	TATATAAAGG	GGAACCAGGG	TTCCGACTAT	GAAATCGGTA	GTATTGAGTG						
2165	2170	2175	2180	2185	2190	2195	2200	2205	2210	2215	2220
	*		*		*		*		*		*
TAACAGGGAG	AAGTAGCTAG	TAGCAATGTG	CCTTGATTGA	TTAGATAAAG	ATTCTAGTA						
ATTGTCCCTC	TTCATCGATC	ATCGTTACAC	GGAACAACT	AATCTATTTT	TAAAGATCAT						
2225	2230	2235	2240	2245	2250	2255	2260	2265	2270	2275	2280
	*		*		*		*		*		*
GGCAGCAAAA	GACCAAATCT	CAGTTGTTTG	CTTCTTGCCA	TCACTGGTCC	AGGTCTTCAG						
CCGTCGTTTT	CTGGTTTAGA	GTCAACAAAC	GAAGAACGGT	AGTGACCAGG	TCCAGAAGTC						
2285	2290	2295	2300	2305	2310	2315	2320	2325	2330	2335	2340
	*		*		*		*		*		*
TTTCCGAATC	TCTTTCCCTT	CCCTGTGGT	CTATTGTGCG	TATGTGACTT	GCGCTTAATC						
AAAGGCTTAG	AGAAAGGGAA	GGGGACACCA	GATAACAGCG	ATACACTGAA	CGCGAATTAG						
2345	2350	2355	2360	2365	2370	2375	2380	2385	2390	2395	2400

FIG. 7 - CONT'D

CAATATTTT	CTTTTTTCT	ATATCAAAAA	ACCTTTACAG	TTAGCAGGGA	TGTTCCCTTAC
GTTATAAAAC	GGAAAAAGA	TATAGTTTTT	TGGAAATGTC	AATCGTCCCT	ACAAGGAATG
2405 2410	2415 2420	2425 2430	2435 2440	2445 2450	2455 2460
CGAGGATTTT	TAACCCCCAA	TCTCTCATAA	TCGCTAGTGT	TTAAAAGGCT	AAGAATAGTG
GCTCCTAAAA	ATTGGGGGTT	AGAGAGTATT	AGCGATCACA	AATTTTCCGA	TTCTTATCAC
2465 2470	2475 2480	2485 2490	2495 2500	2505 2510	2515 2520
GGGCCCCAACC	GATGTGGTAG	GTGATAAAGA	GGCATCTTTT	CTAGAGACAC	ATTGGACCAG
CCCCGGTTGG	CTACACCATC	CACTATTTCT	CCGTAGAAAA	GATCTCTGTG	TAACCTGGTC
2525 2530	2535 2540	2545 2550	2555 2560	2565 2570	2575 2580
ATGAGGATCC	GAAACGGCAG	CCTTTACGTT	CATCACCTGC	TAGAACCTCT	CGTAGTCCAT
TACTCCTAGG	CTTTGCCGTC	GGAAATGCAA	GTAGTGGACG	ATCTTGGAGA	GCATCAGGTA
2585 2590	2595 2600	2605 2610	2615 2620	2625 2630	2635 2640
CACCATTTCT	TGGCATTGGA	ATTCTACTGG	AAAAAAATAC	AAAAAGCAAA	ACAAAACCCT
GTGGTAAAGA	ACCGTAACCT	TAAGATGACC	TTTTTTTATG	TTTTTCGTTT	TGTTTTGGGA
2645 2650	2655 2660	2665 2670	2675 2680	2685 2690	2695 2700
CAGCACTGTT	ACAAGAGGCC	ATTTAAGTAT	CTTGCTGCTC	TTCACCTACC	CATTAGCCAG
GTCTGTACAA	TGTTCTCCGG	TAAATTCATA	GAACACGAAG	AAGTGAATGG	GTAATCGGTC
2705 2710	2715 2720	2725 2730	2735 2740	2745 2750	2755 2760
GTTCTCATT	GGTTTTGCTT	GGGCCTCCCT	GGCACTGAAC	CTTAGGCTTT	GTATGACAGT
CAAGAGTAAT	CCAAAACGAA	CCCGGAGGGA	CCGTGACTTG	GAATCCGAAA	CATACTGTCA
2765 2770	2775 2780	2785 2790	2795 2800	2805 2810	2815 2820
GAAGCAGCAC	TGTGAGTGGT	TCAAGCACAC	TGGAATATAA	AACAGTCATG	GCCTGAGATG
CTTCGTCGTG	ACACTCACCA	AGTTCGTGTG	ACCTTATATT	TTGTCAGTAC	CGGACTCTAC
2825 2830	2835 2840	2845 2850	2855 2860	2865 2870	2875 2880
CAGGTGATGC	CATTACAGAA	CCAAATCGTG	GCACGTATTG	CTGTGTCTCC	TCTCAGAGTG
GTCCACTACG	GTAATGTCTT	GGTTTAGCAC	CGTGCATAAC	GACACAGAGG	AGAGTCTCAC
2885 2890	2895 2900	2905 2910	2915 2920	2925 2930	2935 2940
ACAGTCATAA	ATACTGTCAA	ACAATAAAGG	GAGAATGGTG	CTGTTTAAAG	TCACATCCCT
TGTCAGTATT	TATGACAGTT	TGTTATTTCC	CTCTTACCAC	GACAAATTTT	AGTGTAGGGA
2945 2950	2955 2960	2965 2970	2975 2980	2985 2990	2995 3000
GTAAATTGCA	GAATTCAAAA	GTGATTATCT	CTTTGATCTA	CTTGCCTCAT	TTCCCTATCT
CATTTAACGT	CTTAAGTTTT	CACTAATAGA	GAAACTAGAT	GAACGGAGTA	AAGGGATAGA
3005 3010	3015 3020	3025 3030	3035 3040	3045 3050	3055 3060
TCTCCCCCAC	GGTATCCTAA	ACTTTAGACT	TCCCACTGTT	CTGAAAGGAG	ACATTGCTCT
AGAGGGGGTG	CCATAGGATT	TGAAATCTGA	AGGGTGACAA	GACTTTCTCT	TGTAACGAGA
3065 3070	3075 3080	3085 3090	3095 3100	3105 3110	3115 3120
ATGTCTGCCT	TCGACCACAG	CAAGCCATCA	TCCTCCATTG	CTCCCGGGGA	CTCAAGAGGA

FIG. 7 - CONT'D

TAAGACGGA	AGCTGGTGT	GTTCGGTAGT	AGGAGGTAAC	GAGGGCCCCT	GAGTTCTCCT
3125 3130 *	3135 3140 *	3145 3150 *	3155 3160 *	3165 3170 *	3175 3180 *
ATCTGTTTCT	CTGCTGTCAA	CTTCCCCTCT	GGCTCAGCAT	AGGGTCACTT	TGCCATTATG
TAGACAAAGA	GACGACAGTT	GAAGGGTAGA	CCGAGTCGTA	TCCCAGTGAA	ACGGTAATAC
3185 3190 *	3195 3200 *	3205 3210 *	3215 3220 *	3225 3230 *	3235 3240 *
CAAATGGAGA	TAAAAGCAAT	TCTGGCTGTC	CAGGAGCTAA	TCTGACCGTT	CTATTGTGTG
GTTTACCTCT	ATTTTCGTTA	AGACCGACAG	GTCTTCGATT	AGACTGGCAA	GATAACACAC
3245 3250 *	3255 3260 *	3265 3270 *	3275 3280 *	3285 3290 *	3295 3300 *
GATGACCACA	TAAGAAGGCA	ATTTTAGTGT	ATTAATCATA	GATTATTATA	AACTATAAAC
CTACTGGTGT	ATTCCTCCGT	TAAAATCACA	TAATTAGTAT	CTAATAATAT	TTGATATTTG
3305 3310 *	3315 3320 *	3325 3330 *	3335 3340 *	3345 3350 *	3355 3360 *
TTAAGGGCAA	GGAGTTTATT	ACAATGTATC	TTTATTAAAA	CAAAAGGGTG	TATAGTGTTC
AATTCCCGTT	CCTCAAATAA	TGTTACATAG	AAATAATTTT	GTTTTCCAC	ATATCACAAG
3365 3370 *	3375 3380 *	3385 3390 *	3395 3400 *	3405 3410 *	3415 3420 *
ACAAACTGTG	AAAATAGTGT	AAGAACTGTA	CATTGTGAGC	TCTGGTTATT	TTTCTCTTGT
TGTTTGACAC	TTTTATCACA	TTCTTGACAT	GTAACACTCG	AGACCAATAA	AAAGAGAACA
3425 3430 *	3435 3440 *	3445 3450 *	3455 3460 *	3465 3470 *	3475 3480 *
ACCATAGAAA	AATGTATAAA	AATTATCAAA	AAGCTAATGT	GCAGGGATAT	TGCCTTATTT
TGGTATCTTT	TTACATATTT	TTAATAGTTT	TTTCGATTACA	CGTCCCTATA	ACGGAATAAA
3485 3490 *	3495 3500 *	3505 3510 *	3515 3520 *	3525 3530 *	3535 3540 *
GTCTGTAAAA	AATGGAGCTC	AGTAACATAA	CTGCTTCTTG	GAGCTTTGGA	ATATTTTATC
CAGACATTTT	TTACCTCGAG	TCATTGTATT	GACGAAGAAC	CTCGAAACCT	TATAAAATAG
3545 3550 *					
CTGTATTCTT	GTTT	(SEQ ID NO:7)			
GACATAAGAA	CAAA				



FIG. 8 - CONT'D

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485      490      495      500      505      510      515      520      525      530
      *      *      *      *      *      *      *      *      *
CCA TAC ATT GTT CAG TTT TAT GGT GCA CTC TTC AGA GAG GGT GAC TGT
GGT ATG TAA CAA GTC AAA ATA CCA CGT GAG AAG TCT CTC CCA CTG ACA
Pro Tyr Ile Val Gln Phe Tyr Gly Ala Leu Phe Arg Glu Gly Asp Cys>

      535      540      545      550      555      560      565      570      575
      *      *      *      *      *      *      *      *
TGG ATC TGT ATG GAA CTC ATG TCT ACC TCG TTT GAT AAG TTT TAC AAA
ACC TAG ACA TAC CTT GAG TAC AGA TGG AGC AAA CTA TTC AAA ATG TTT
Trp Ile Cys Met Glu Leu Met Ser Thr Ser Phe Asp Lys Phe Tyr Lys>

580      585      590      595      600      605      610      615      620      625
      *      *      *      *      *      *      *      *
TAT GTA TAT AGT GTA TTA GAT GAT GTT ATT CCA GAA GAA ATT TTA GGC
ATA CAT ATA TCA CAT AAT CTA CTA CAA TAA GGT CTT CTT TAA AAT CCG
Tyr Val Tyr Ser Val Leu Asp Asp Val Ile Pro Glu Glu Ile Leu Gly>

      630      635      640      645      650      655      660      665      670      675
      *      *      *      *      *      *      *      *
AAA ATC ACT TTA GCA ACT GTG AAA GCA CTA AAC CAC TTA AAA GAA AAC
TTT TAG TGA AAT CGT TGA CAC TTT CGT GAT TTG GTG AAT TTT CTT TTG
Lys Ile Thr Leu Ala Thr Val Lys Ala Leu Asn His Leu Lys Glu Asn>

      680      685      690      695      700      705      710      715      720
      *      *      *      *      *      *      *
TTG AAA ATT ATT CAC AGA GAT ATC AAA CCT TCC AAT ATT CTT CTG GAC
AAC TTT TAA TAA GTG TCT CTA TAG TTT GGA AGG TTA TAA GAA GAC CTG
Leu Lys Ile Ile His Arg Asp Ile Lys Pro Ser Asn Ile Leu Leu Asp>

725      730      735      740      745      750      755      760      765      770
      *      *      *      *      *      *      *
AGA AGT GGA AAT ATT AAG CTC TGT GAC TTC GGC ATC AGT GGA CAG CTT
TCT TCA CCT TTA TAA TTC GAG ACA CTG AAG CCG TAG TCA CCT GTC GAA
Arg Ser Gly Asn Ile Lys Leu Cys Asp Phe Gly Ile Ser Gly Gln Leu>

      775      780      785      790      795      800      805      810      815
      *      *      *      *      *      *      *
GTG GAC TCT ATT GCC AAG ACA AGA GAT GCT GGC TGT AGG CCA TAC ATG
CAC CTG AGA TAA CGG TTC TGT TCT CTA CGA CCG ACA TCC GGT ATG TAC
Val Asp Ser Ile Ala Lys Thr Arg Asp Ala Gly Cys Arg Pro Tyr Met>

820      825      830      835      840      845      850      855      860      865
      *      *      *      *      *      *      *
GCA CCT GAA AGA ATA GAC CCA AGC GCA TCA CGA CAA GGA TAT GAT GTC
CGT GGA CTT TCT TAT CTG GGT TCG CGT AGT GCT GTT CCT ATA CTA CAG
Ala Pro Glu Arg Ile Asp Pro Ser Ala Ser Arg Gln Gly Tyr Asp Val>

      870      875      880      885      890      895      900      905      910      915
      *      *      *      *      *      *      *
CGC TCT GAT GTC TGG AGT TTG GGG ATC ACA TTG TAT GAG TTG GCC ACA
GCG AGA CTA CAG ACC TCA AAC CCC TAG TGT AAC ATA CTC AAC CGG TGT
Arg Ser Asp Val Trp Ser Leu Gly Ile Thr Leu Tyr Glu Leu Ala Thr>

      920      925      930      935      940      945      950      955      960
      *      *      *      *      *      *      *
GGC CGA TTT CCT TAT CCA AAG TGG AAT AGT GTA TTT GAT CAA CTA ACA
CCG GCT AAA GGA ATA GGT TTC ACC TTA TCA CAT AAA CTA GTT GAT TGT
Gly Arg Phe Pro Tyr Pro Lys Trp Asn Ser Val Phe Asp Gln Leu Thr>

965      970      975      980      985      990      995      1000      1005      1010
      *      *      *      *      *      *      *

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FIG. 8 - CONT'D

CAA GTC GTG AAA GGA GAT CCT CCG CAG CTG AGT AAT TCT GAG GAA AGG  
GTT CAG CAC TTT CCT CTA GGA GGC GTC GAC TCA TTA AGA CTC CTT TCC  
Gln Val Val Lys Gly Asp Pro Pro Gln Leu Ser Asn Ser Glu Glu Arg>

1015 1020 1025 1030 1035 1040 1045 1050 1055

GAA TTC TCC CCG AGT TTC ATC AAC TTT GTC AAC TTG TGC CTT ACG AAG  
CTT AAG AGG GGC TCA AAG TAG TTG AAA CAG TTG AAC ACG GAA TGC TTC  
Glu Phe Ser Pro Ser Phe Ile Asn Phe Val Asn Leu Cys Leu Thr Lys>

1060 1065 1070 1075 1080 1085 1090 1095 1100 1105

GAT GAA TCC AAA AGG CCA AAG TAT AAA GAG CTT CTG AAA CAT CCC TTT  
CTA CTT AGG TTT TCC GGT TTC ATA TTT CTC GAA GAC TTT GTA GGG AAA  
Asp Glu Ser Lys Arg Pro Lys Tyr Lys Glu Leu Leu Lys His Pro Phe>

1110 1115 1120 1125 1130 1135 1140 1145 1150 1155

ATT TTG ATG TAT GAA GAA CGT GCC GTT GAG GTC GCA TGC TAT GTT TGT  
TAA AAC TAC ATA CTT CTT GCA CGG CAA CTC CAG CGT ACG ATA CAA ACA  
Ile Leu Met Tyr Glu Glu Arg Ala Val Glu Val Ala Cys Tyr Val Cys>

1160 1165 1170 1175 1180 1185 1190 1195 1200

AAA ATC CTG GAT CAA ATG CCA GCT ACT CCC AGC TCT CCC ATG TAT GTC  
TTT TAG GAC CTA GTT TAC GGT CGA TGA GGG TCG AGA GGG TAC ATA CAG  
Lys Ile Leu Asp Gln Met Pro Ala Thr Pro Ser Ser Pro Met Tyr Val>

1205 1210 1215 1220 1225 1230 1235 1240 1245 1250 1255 1260

GAT TGAT ATCGCTGCTA CATCAGACTC TAGAAAAAAG GGCTGAGAGG AAGCAAGACG  
CTA ACTA TAGCGACGAT GTAGTCTGAG ATCTTTTTTTC CCGACTCTCC TTCGTTCTGC  
Asp> (SEQ ID NO:10)

1265 1270 1275 1280 1285 1290 1295 1300 1305 1310 1315 1320

TAAAGAATTT TCATCCCGTA TCACAGTGTT TTTATIGCTC GCCCAGACAC CATGTGCAAT  
ATTTCTTAAA AGTAGGGCAT AGTGTACAA AAATAACGAG CGGGTCTGTG GTACACGTTA

1325 1330 1335 1340 1345 1350 1355 1360 1365 1370 1375 1380

AAGATTGGTG TTCGTTTCCA TCATGTCGT ATACTCCTGT CACCTAGAAC GTGCATCCTT  
TTCTAACCAC AAGCAAAGGT AGTACAGACA TATGAGGACA GTGGATCTTG CACGTAGGAA

1385 1390 1395 1400 1405 1410 1415 1420 1425 1430 1435 1440

GTAATACCTG ATTGATCACA CAGTGTTAGT GCTGGTCAGA GAGACCTCAT CCTGCTCTTT  
CATTATGGAC TAACTAGTGT GTCACAATCA CGACCAGTCT CTCTGGAGTA GGACGAGAAA

1445 1450 1455 1460 1465 1470 1475 1480 1485 1490 1495 1500

TGTGATGAAC ATATTCATGA AATGTGGAAG TCAGTACGAT CAAGTTGTTG ACTGTGATTA  
ACACTACTTG TATAAGTACT TTACACCTC AGTCATGCTA GTTCAACAAC TGACACTAAT

1505 1510 1515 1520 1525 1530 1535 1540 1545 1550 1555 1560

GATCACATCT TAAATTCATT TCTAGACTCA AAACCTGGAG ATGCAGCTAC TGAATGGTG  
CTAGTGTAAG ATTTAAGTAA AGATCTGAGT TTTGGACCTC TACGTCGATG ACCTTACCAC

1565 1570 1575 1580 1585 1590 1595 1600 1605 1610 1615 1620

TTTGTGTCAGA CTTCCAAATC CTGGAAGGAC ACAGTGATGA ATGTACTATA TCTGAACATA



FIG. 8 - CONT'D

AAAACAGTCT	GAAGGTTTAG	GACCTTCCTG	TGTCACTACT	TACATGATAT	AGACTTGTAT
1625 1630	1635 1640	1645 1650	1655 1660	1665 1670	1675 1680
*	*	*	*	*	*
GAAACTCGGG	CTTGAGTGAG	AAGAGCTTGC	ACAGCCAACG	AGACACATTG	CCTTCTGGAG
CTTTGAGCCC	GAATCACTC	TTCTCGAACG	TGTCGGTTGC	TCTGTGTAAC	GGAAGACCTC
1685 1690	1695 1700	1705 1710	1715 1720	1725 1730	1735 1740
*	*	*	*	*	*
CTGGGAGACA	AAGGAGGAAT	TTACTTTCTT	CACCAAGTGC	AATAGATTAC	TGATGTGATA
GACCTCTGT	TTCTCCTTA	AATGAAAGAA	GTGGTTCACG	TTATCTAATG	ACTACACTAT
1745 1750	1755 1760	1765 1770	1775 1780	1785 1790	1795 1800
*	*	*	*	*	*
TTCTGTTGCT	TTACAGTTAC	AGTTGATGTT	TGGGGATCGA	TGTGCTCAGC	CAAATTTCTT
AAGACAACGA	AATGTCAATG	TCAACTACAA	ACCCCTAGCT	ACACGAGTCG	GTTTAAAGGA
1805 1810	1815 1820	1825 1830	1835 1840	1845 1850	1855 1860
*	*	*	*	*	*
GTTTGAAATA	TCATGTTAAA	TTAGAATGAA	TTTATCTTTA	CCAAAAACCA	TGTTGCGTTC
CAAACTTTAT	AGTACAATTT	AATCTTACTT	AAATAGAAAT	GGTTTTTGGT	ACAACGCAAG
1865 1870	1875 1880	1885 1890	1895 1900	1905 1910	1915 1920
*	*	*	*	*	*
AAAGAGGTGA	ACATTAAAAT	ATAGAGACAG	GACAGAATGT	GTTCTTTTCT	CCTCTACCAG
TTTCTCCACT	TGTAATTTTA	TATCTCTGTC	CTGTCTTACA	CAAGAAAAGA	GGAGATGGTC
1925 1930	1935 1940	1945 1950	1955 1960	1965 1970	1975 1980
*	*	*	*	*	*
TCCTATTTTT	CAATGGGAAG	ACTCAGGAGT	CTGCCACTTG	TCAAAGAAGG	TGCTGATCCT
AGGATAAAAA	GTTACCCTTC	TGAGTCCTCA	GACGGTGAAC	AGTTTCTTCC	ACGACTAGGA
1985 1990	1995 2000	2005 2010	2015 2020	2025 2030	2035 2040
*	*	*	*	*	*
AAGAATTTTT	CATTCTCAGA	ATTCGGTGTG	CTGCCAACTT	GATGTTCCAC	CTGCCACAAA
TTCTTAAAAA	GTAAGAGTCT	TAAGCCACAC	GACGGTTGAA	CTACAAGGTG	GACGGTGTTC
2045 2050	2055 2060	2065 2070	2075 2080	2085 2090	2095 2100
*	*	*	*	*	*
CCACCAGGAC	TGAAAGAAGA	AAACAGTACA	GAAGGCAAAG	TTTACAGATG	TTTTTAATTC
GGTGGTCCTG	ACTTCTTCT	TTTGTCATGT	CTTCCGTTTC	AAATGTCTAC	AAAAATTAAG
2105 2110	2115 2120	2125 2130	2135 2140	2145 2150	2155 2160
*	*	*	*	*	*
TAGTATTTTA	TCTGGAACAA	CTTGTAGCAG	CTATATATTT	CCCCTTGGTC	CCAAGCCTGA
ATCATAAAAT	AGACCTTGTT	GAACATCGTC	GATATATAAA	GGGGAACCAG	GGTTCCGACT
2165 2170	2175 2180	2185 2190	2195 2200	2205 2210	2215 2220
*	*	*	*	*	*
TACTTTAGCC	ATCATAACTC	ACTAACAGGG	AGAAGTAGCT	AGTAGCAATG	TGCTTTGATT
ATGAAATCGG	TAGTATTGAG	TGATTGTCCC	TCTTCATCGA	TCATCGTTAC	ACGGAACATA
2225 2230	2235 2240	2245 2250	2255 2260	2265 2270	2275 2280
*	*	*	*	*	*
GATTAGATAA	AGATTTCTAG	TAGGCAGCAA	AAGACCAAAT	CTCAGTTGTT	TGCTTCTTGC
CTAATCTATT	TCTAAAGATC	ATCCGTCGTT	TTCTGGTTTA	GAGTCAACAA	ACGAAGAACG
2285 2290	2295 2300	2305 2310	2315 2320	2325 2330	2335 2340
*	*	*	*	*	*
CATCACTGGT	CCAGGTCTTC	AGTTTCCGAA	TCTCTTTCCC	TTCCCCTGTG	GTCTATTGTC
GTAGTGACCA	GGTCCAGAAG	TCAAAGGCTT	AGAGAAAGGG	AAGGGGACAC	CAGATAACAG

FIG. 8 - CONT'D

2345	2350	2355	2360	2365	2370	2375	2380	2385	2390	2395	2400
	*		*		*		*		*		*
GCTATGTGAC	TTGCGCTTAA	TCCAATATTT	TGCCTTTTTT	CTATATCAAA	AAACCTTTAC						
CGATACACTG	AACGCGAATT	AGGTTATAAA	ACGGAAAAAA	GATATAGTTT	TTTGGAAATG						
2405	2410	2415	2420	2425	2430	2435	2440	2445	2450	2455	2460
	*		*		*		*		*		*
AGTTAGCAGG	GATGTTCCCT	ACCGAGGATT	TTTAACCCCC	AATCTCTCAT	AATCGCTAGT						
TCAATCGTCC	CTACAAGGAA	TGGCTCCTAA	AAATTGGGGG	TTAGAGAGTA	TTAGCGATCA						
2465	2470	2475	2480	2485	2490	2495	2500	2505	2510	2515	2520
	*		*		*		*		*		*
GTTTAAAAGG	CTAAGAATAG	TGGGGCCCAA	CCGATGTGGT	AGGTGATAAA	GAGGCATCTT						
CAAATTTTCC	GATTCTTATC	ACCCCGGGTT	GGCTACACCA	TCCACTATTT	CTCCGTAGAA						
2525	2530	2535	2540	2545	2550	2555	2560	2565	2570	2575	2580
	*		*		*		*		*		*
TTCTAGAGAC	ACATTGGACC	AGATGAGGAT	CCGAAACGGC	AGCCTTTTACG	TTCATCACCT						
AAGATCTCTG	TGTAACCTGG	TCTACTCCTA	GGCTTTGCCG	TCGGAAATGC	AAGTAGTGGA						
2585	2590	2595	2600	2605	2610	2615	2620	2625	2630	2635	2640
	*		*		*		*		*		*
GCTAGAACCT	CTCGTAGTCC	ATCACCATTT	CTTGGCATTG	GAATTCCTACT	CGAAAAAAT						
CGATCTTGGA	GAGCATCAGG	TAGTGGTAAA	GAACCGTAAC	CTTAAGATGA	CCTTTTTTTA						
2645	2650	2655	2660	2665	2670	2675	2680	2685	2690	2695	2700
	*		*		*		*		*		*
ACAAAAAGCA	AAACAAACC	CTCAGCACTG	TTACAAGAGG	CCATTTAAGT	ATCTTGTGCT						
TGTTTTTCGT	TTTGTTTTGG	GAGTCGTGAC	AATGTTCTCC	GGTAAATTC	TAGAACACGA						
2705	2710	2715	2720	2725	2730	2735	2740	2745	2750	2755	2760
	*		*		*		*		*		*
TCTTCACTTA	CCCATTAGCC	AGGTTCTCAT	TAGGTTTTGC	TTGGGCCTCC	CTGGCACTGA						
AGAAGTGAAT	GGGTAATCGG	TCCAAGAGTA	ATCCAAAACG	AACCCGGAGG	GACCGTGACT						
2765	2770	2775	2780	2785	2790	2795	2800	2805	2810	2815	2820
	*		*		*		*		*		*
ACCTTAGGCT	TTGTATGACA	GTGAAGCAGC	ACTGTGAGTG	GTTCAAGCAC	ACTGGAATAT						
TGGAATCCGA	AACATACTGT	CACTTCGTCTG	TGACACTCAC	CAAGTTCGTG	TGACCTTATA						
2825	2830	2835	2840	2845	2850	2855	2860	2865	2870	2875	2880
	*		*		*		*		*		*
AAAACAGTCA	TGGCCTGAGA	TGCAGGTGAT	GCCATTACAG	AACCAAATCG	TGGCAGGTAT						
TTTTGTTCAGT	ACCGGACTCT	ACGTCCACTA	CGGTAATGTC	TTGGTTTAGC	ACCGTGCATA						
2885	2890	2895	2900	2905	2910	2915	2920	2925	2930	2935	2940
	*		*		*		*		*		*
TGCTGTGTCT	CCTCTCAGAG	TGACAGTCAT	AAATACTGTC	AAACAATAAA	GGGAGAATGG						
ACGACACAGA	GGAGAGTCTC	ACTGTCAGTA	TTTATGACAG	TTTGTTATTT	CCCTCTTACC						
2945	2950	2955	2960	2965	2970	2975	2980	2985	2990	2995	3000
	*		*		*		*		*		*
TGCTGTTTTAA	AGTCACATCC	CTGTAAATTG	CAGAATTCAA	AAGTGATTAT	CTCTTTGATC						
ACGACAAATT	TCAGTGTAGG	GACATTTAAC	GTCTTAAGTT	TTCACATAA	GAGAAACTAG						
3005	3010	3015	3020	3025	3030	3035	3040	3045	3050	3055	3060
	*		*		*		*		*		*
TACTTGCCCTC	ATTTCCCTAT	CTTCTCCCCC	ACGGTATCCT	AAACTTTAGA	CTTCCCCTG						
ATGAACGGAG	TAAAGGGATA	GAAGAGGGGG	TGCCATAGGA	TTTGAAATCT	GAAGGGTGAC						
3065	3070	3075	3080	3085	3090	3095	3100	3105	3110	3115	3120
	*		*		*		*		*		*

FIG. 8 - CONT'D

TTCTGAAAGG	AGACATTGCT	CTATGTCTGC	CTTCGACCAC	AGCAAGCCAT	CATCCTCCAT
AAGACTTTCC	TCTGTAACGA	GATACAGACG	GAAGCTGGTG	TCGTTCCGTA	GTAGGAGGTA
3125 3130	3135 3140	3145 3150	3155 3160	3165 3170	3175 3180
*	*	*	*	*	*
TGCTCCCGGG	GACTCAAGAG	GAATCTGTTT	CTCTGCTGTC	AACTTCCCAT	CTGGCTCAGC
ACGAGGGCCC	CTGAGTTCTC	CTTAGACAAA	GAGACGACAG	TTGAAGGGTA	GACCGAGTCG
3185 3190	3195 3200	3205 3210	3215 3220	3225 3230	3235 3240
*	*	*	*	*	*
ATAGGGTCAC	TTTGCCATTA	TGCAAATGGA	GATAAAAGCA	ATTCTGGCTG	TCCAGGAGCT
TATCCCAGTG	AAACGGTAAT	ACGTTTACCT	CTATTTTCGT	TAAGACCGAC	AGGTCTCTGA
3245 3250	3255 3260	3265 3270	3275 3280	3285 3290	3295 3300
*	*	*	*	*	*
AATCTGACCG	TTCTATTGTG	TGGATGACCA	CATAAGAAGG	CAATTTTAGT	GTATTAATCA
TTAGACTGGC	AAGATAACAC	ACCTACTGGT	GTATTCCTCC	GTTAAAATCA	CATAATTAGT
3305 3310	3315 3320	3325 3330	3335 3340	3345 3350	3355 3360
*	*	*	*	*	*
TAGATTATTA	TAAACTATAA	ACTTAAGGGC	AAGGAGTTTA	TTACAATGTA	TCTTTATTAA
ATCTAATAAT	ATTTGATATT	TGAATTCCTG	TTCTCTCAAAT	AATGTTACAT	AGAAATAATT
3365 3370	3375 3380	3385 3390	3395 3400	3405 3410	3415 3420
*	*	*	*	*	*
AACAAAAGGG	TGTATAGTGT	TCACAACTG	TGAAAATAGT	GTAAGAACTG	TACATTGTGA
TTGTTTTCCC	ACATATCACA	AGTGTTTGAC	ACTTTTATCA	CATTCTTGAC	ATGTAACACT
3425 3430	3435 3440	3445 3450	3455 3460	3465 3470	3475 3480
*	*	*	*	*	*
GCTCTGGTTA	TTTTTCTCTT	GTACCATAGA	AAAATGTATA	AAAATTATCA	AAAAGCTAAT
CGAGACCAAT	AAAAAGAGAA	CATGGTATCT	TTTTACATAT	TTTTAATAGT	TTTTCGATTA
3485 3490	3495 3500	3505 3510	3515 3520	3525 3530	3535 3540
*	*	*	*	*	*
GTGCAGGGAT	ATTGCCTTAT	TTGTCTGTAA	AAAATGGAGC	TCAGTAACAT	AACTGCTTCT
CACGTCCCTA	TAACGGAATA	AACAGACATT	TTTTACCTCG	AGTCATTGTA	TTGACGAAGA
3545 3550	3555 3560	3565 3570	3575		
*	*	*			
TGGAGCTTTG	GAATATTTTA	TCCTGTATTC	TTGTTT	(SEQ ID NO:9)	
ACCTCGAAAC	CTTATAAAAT	AGGACATAAG	AACAAA		